

TECHNISCHES DATENHANDBUCH

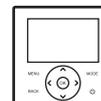
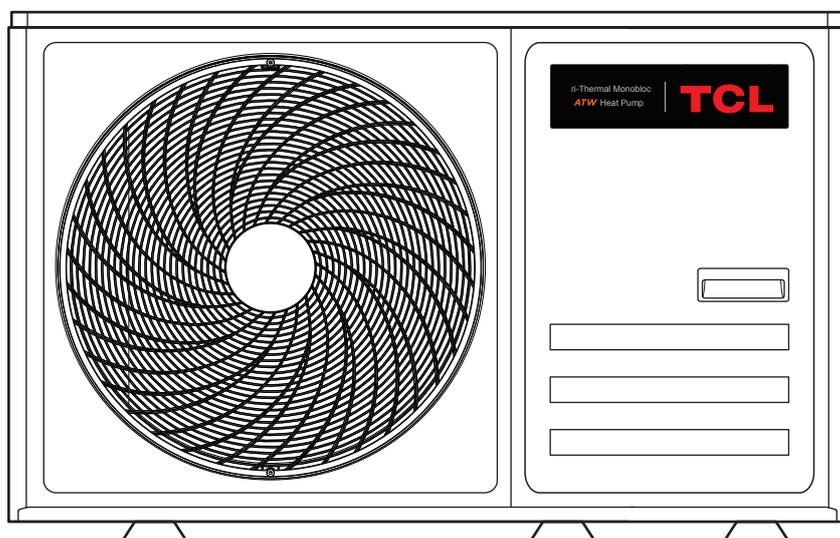
Luft-Wasser-Wärmepumpensystem Tri-Thermal Monoblock

4kW
 4kW(Heizung 3kW)
 6kW
 6kW(Heizung 3kW)
 8kW
 8kW(Heizung 3kW)
 10kW
 10kW(Heizung 3kW)
 12kW
 12kW(Heizung 3kW)
 14kW
 14kW(Heizung 3kW)
 16kW
 16kW(Heizung 3kW)

THML-4D/HBp-A
 THMLd-4D/3HBp-A
 THML-6D/HBp-A
 THMLd-6D/3HBp-A
 THML-8D/HBp-A
 THMLd-8D/3HBp-A
 THML-10D/HBp-A
 THMLd-10D/3HBp-A
 THML-12D/HBp-A
 THMLd-12D/3HBp-A
 THML-14D/HBp-A
 THMLd-14D/3HBp-A
 THML-16D/HBp-A
 THMLd-16D/3HBp-A

3-PH 12kW
 3-PH 12kW(Heizung 3kW)
 3-PH 12kW(Heizung 6kW)
 3-PH 12kW(Heizung 9kW)
 3-PH 14kW
 3-PH 14kW(Heizung 3kW)
 3-PH 14kW(Heizung 6kW)
 3-PH 14kW(Heizung 9kW)
 3-PH 16kW
 3-PH 16kW(Heizung 3kW)
 3-PH 16kW(Heizung 6kW)
 3-PH 16kW(Heizung 9kW)

THML-12S/HBp-A
 THMLd-12S/3HBp-A
 THMLd-12S/6HBp-A
 THMLd-12S/9HBp-A
 THML-14S/HBp-A
 THMLd-14S/3HBp-A
 THMLd-14S/6HBp-A
 THMLd-14S/9HBp-A
 THML-16S/HBp-A
 THMLd-16S/3HBp-A
 THMLd-16S/6HBp-A
 THMLd-16S/9HBp-A



WICHTIG NICHT:

Vielen Dank für den Kauf unseres Produkts:

Bevor Sie Ihr Gerät verwenden, lesen Sie dieses Handbuch bitte sorgfältig durch und bewahren Sie es zum späteren Nachschlagen auf.

Technisch Parameter

Modell(s):	4kW (Heizung 3kW) ;4 kW
Luft-Wasser-Wärmepumpe	Ja
Wasser-Wasser-Wärmepumpe	nien
Sole/Wasser Wärmepumpe	nein
Niedertemperatur-Wärmepumpe	nein
Ausgestattet mit einer Zusatzheizung	Ja(für 4kW(Heizung 3kW))nein(für 4kW)
Kombiheizgerät mit Wärmepumpe	nein
Deklariertes Klimazustand;	Durchschnitt
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.	

Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	5.7	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	182	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	5.1	kW	$T_j = -7^\circ\text{C}$	COPd	2.82	-
$T_j = +2^\circ\text{C}$	Pdh	3.1	kW	$T_j = +2^\circ\text{C}$	COPd	4.37	-
$T_j = +7^\circ\text{C}$	Pdh	2.1	kW	$T_j = +7^\circ\text{C}$	COPd	6.57	-
$T_j = +12^\circ\text{C}$	Pdh	1.7	kW	$T_j = +12^\circ\text{C}$	COPd	8.83	-
$T_j =$ zweiwertige Temperatur	Pdh	5.1	kW	$T_j =$ zweiwertige Temperatur	COPd	2.82	-
$T_j =$ Betriebsgrenztemperatur	Pdh	4.6	kW	$T_j =$ Betriebsgrenztemperatur	COPd	2.60	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	Pdh	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	COPd	N/A	-
Zweiwertige Temperatur	T_{biv}	-7	°C	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-10	°C
Zyklusintervallkapazität für Heizung	P_{cyh}	N/A	kW	Zyklus-Intervall-Effizienz	COP_{cyc}	N/A	-
Abbaukoeffizient (**)	C_{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P_{OFF}	0.010	kW	Nennwärmeleistung (**)	P_{sup}	1.1	kW
Thermostat-Aus-Modus	P_{TO}	0.010	kW	Art der Energiezufuhr	Elektrisch		
Standby Modus	P_{SB}	0.010	kW				
Kurbelgehäuseheizungsmodus	P_{CK}	0.000	kW				

Andere Dinge

Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	2600	m^3/h
Schalleistungspegel, innen/außen	L_{WA}	-/56	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m^3/h
Jährlicher Energieverbrauch	Q_{HE}	2559	kWh				

Für Kombiheizgeräte mit Wärmepumpe:

Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q_{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q_{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ
Kontakt details	Siehe Rückseite des Handbuchs						

(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung $P_{designh}$ und die Nennwärmeleistung eines Zusatzheizgeräts P_{sup} ist gleich der Zusatzleistung zum Heizen $sup(T_j)$. (**) Wenn C_{dh} nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient $C_{dh} = 0,9$.

Technisch Parameter

Modell(s):	4kW (Heizung 3kW) ;4 kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 4kW(Heizung 3kW))nein(für 4kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Wärmer		
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	5.3	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	N/A	kW
T _j = + 2°C	P _{dh}	5.3	kW
T _j = +7°C	P _{dh}	3.4	kW
T _j = + 12°C	P _{dh}	1.7	kW
T _j = zweiwertige Temperatur	P _{dh}	3.4	kW
T _j = Betriebsgrenztemperatur	P _{dh}	5.3	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.010	kW
Thermostat-Aus-Modus	P _{TO}	0.010	kW
Standby Modus	P _{SB}	0.010	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Artikel	Symbol	Wert	Einheit
Saisonale Raumheizungs-Energieeffizienz	η _s	264	%
Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	COP _d	N/A	-
T _j = + 2°C	COP _d	3.39	-
T _j = +7°C	COP _d	5.81	-
T _j = + 12°C	COP _d	8.62	-
T _j = zweiwertige Temperatur	COP _d	5.81	-
T _j = Betriebsgrenztemperatur	COP _d	3.39	-
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	COP _d	N/A	-
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	2	°C
Zyklus-Intervall-Effizienz	COP _{cyh}	N/A	-
Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Zusatzheizung			
Nennwärmeleistung (**)	P _{sup}	0.0	kW
Art der Energiezufuhr	Elektrisch		
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/56	dB
Jährlicher Energieverbrauch	Q _{HE}	1065	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Kontaktetails		Siehe Rückseite des Handbuchs	
Täglicher Kraftstoffverbrauch			
		Q _{fuel}	N/A
		AFC	N/A
			GJ
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Modell(s):	4kW (Heizung 3kW) ;4 kW						
Luft-Wasser-Wärmepumpe	Ja						
Wasser-Wasser-Wärmepumpe	nein						
Sole/Wasser Wärmepumpe	nein						
Niedertemperatur-Wärmepumpe	nein						
Ausgestattet mit einer Zusatzheizung	Ja(für 4kW(Heizung 3kW))nein(für 4kW)						
Kombiheizgerät mit Wärmepumpe	nein						
Deklariertes Klimazustand;	kälter						
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	5.0	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	160	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	3.0	kW	$T_j = -7^\circ\text{C}$	COPd	3.45	-
$T_j = +2^\circ\text{C}$	Pdh	1.9	kW	$T_j = +2^\circ\text{C}$	COPd	5.00	-
$T_j = +7^\circ\text{C}$	Pdh	1.2	kW	$T_j = +7^\circ\text{C}$	COPd	5.73	-
$T_j = +12^\circ\text{C}$	Pdh	1.6	kW	$T_j = +12^\circ\text{C}$	COPd	7.84	-
$T_j =$ zweiwertige Temperatur	Pdh	4.1	kW	$T_j =$ zweiwertige Temperatur	COPd	2.51	-
$T_j =$ Betriebsgrenztemperatur	Pdh	3.3	kW	$T_j =$ Betriebsgrenztemperatur	COPd	1.72	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	Pdh	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	COPd	N/A	-
Zweiwertige Temperatur	T_{biv}	-15	$^\circ\text{C}$	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-22	$^\circ\text{C}$
Zyklusintervallkapazität für Heizung	P_{cyh}	N/A	kW	Zyklus-Intervall-Effizienz	COP_{cyc}	N/A	-
Abbaukoeffizient (**)	C_{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	$^\circ\text{C}$
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P_{OFF}	0.010	kW	Nennwärmeleistung (**)	P_{sup}	2.7	kW
Thermostat-Aus-Modus	P_{TO}	0.010	kW	Art der Energiezufuhr Elektrisch			
Standby Modus	P_{SB}	0.010	kW				
Kurbelgehäuseheizungsmodus	P_{CK}	0.000	kW				
Andere Dinge							
Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	2600	m^3/h
Schalleistungspegel, innen/außen	L_{WA}	-/56	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m^3/h
Jährlicher Energieverbrauch	Q_{HE}	3038	kWh				
Für Kombiheizgeräte mit Wärmepumpe:							
Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q_{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q_{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ
Kontaktفاصيل	Siehe Rückseite des Handbuchs						
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen $P_{designh}$, und die Nennwärmeleistung eines Zusatzheizgeräts P_{sup} ist gleich der Zusatzleistung zum Heizen $sup(T_j)$. (**) Wenn C_{dh} nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient $C_{dh} = 0,9$.							

Technisch Parameter

Modell(s):	4kW (Heizung 3kW) ;4 kW
Luft-Wasser-Wärmepumpe	Ja
Wasser-Wasser-Wärmepumpe	nien
Sole/Wasser Wärmepumpe	nein
Niedertemperatur-Wärmepumpe	nein
Ausgestattet mit einer Zusatzheizung	Ja(für 4kW(Heizung 3kW))nein(für 4kW)
Kombiheizgerät mit Wärmepumpe	nein
Deklariertes Klimazustand;	Durchschnitt
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.	

Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	4.7	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	131	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	4.2	kW	$T_j = -7^\circ\text{C}$	COPd	2.14	-
$T_j = +2^\circ\text{C}$	Pdh	2.5	kW	$T_j = +2^\circ\text{C}$	COPd	3.26	-
$T_j = +7^\circ\text{C}$	Pdh	1.7	kW	$T_j = +7^\circ\text{C}$	COPd	4.44	-
$T_j = +12^\circ\text{C}$	Pdh	1.4	kW	$T_j = +12^\circ\text{C}$	COPd	5.54	-
$T_j =$ zweiwertige Temperatur	Pdh	4.2	kW	$T_j =$ zweiwertige Temperatur	COPd	2.14	-
$T_j =$ Betriebsgrenztemperatur	Pdh	3.7	kW	$T_j =$ Betriebsgrenztemperatur	COPd	1.72	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $\text{TOL} < -20^\circ\text{C}$)	Pdh	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $\text{TOL} < -20^\circ\text{C}$)	COPd	N/A	-
Zweiwertige Temperatur	T_{biv}	-7	$^\circ\text{C}$	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-10	$^\circ\text{C}$
Zyklusintervallkapazität für Heizung	P_{cyh}	N/A	kW	Zyklus-Intervall-Effizienz	COP_{cyh}	N/A	-
Abbaukoeffizient (**)	C_{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	$^\circ\text{C}$
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P_{OFF}	0.010	kW	Nennwärmeleistung (**)	P_{sup}	1.0	kW
Thermostat-Aus-Modus	P_{TO}	0.010	kW	Art der Energiezufuhr Elektrisch			
Standby Modus	P_{SB}	0.010	kW				
Kurbelgehäuseheizungsmodus	P_{CK}	0.000	kW				

Andere Dinge							
Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	2600	m^3/h
Schalleistungspegel, innen/außen	L_{WA}	-/56	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m^3/h
Jährlicher Energieverbrauch	Q_{HE}	2898	kWh				
Für Kombiheizgeräte mit Wärmepumpe:							
Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q_{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q_{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ
Kontaktفاصيل	Siehe Rückseite des Handbuchs						

(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(T_j). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.

Technisch Parameter

Technisch Parameter			
Modell(s):	4kW (Heizung 3kW) ;4 kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 4kW(Heizung 3kW))nein(für 4kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Wärmer		
Parameter sind für Niedertemperaturanwendung deklariert .			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	5.0	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	N/A	kW
T _j = + 2°C	P _{dh}	5.0	kW
T _j = +7°C	P _{dh}	3.2	kW
T _j = + 12°C	P _{dh}	1.5	kW
T _j = zweiwertige Temperatur	P _{dh}	3.2	kW
T _j = Betriebsgrenztemperatur	P _{dh}	5.0	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.010	kW
Thermostat-Aus-Modus	P _{TO}	0.010	kW
Standby Modus	P _{SB}	0.010	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Artikel	Symbol	Wert	Einheit
Saisonale Raumheizungs-Energieeffizienz	η _s	165	%
Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	COP _d	N/A	-
T _j = + 2°C	COP _d	2.31	-
T _j = +7°C	COP _d	3.68	-
T _j = + 12°C	COP _d	5.21	-
T _j = zweiwertige Temperatur	COP _d	3.68	-
T _j = Betriebsgrenztemperatur	COP _d	2.31	-
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	COP _d	N/A	-
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	2	°C
Zyklus-Intervall-Effizienz	COP _{cyh}	N/A	-
Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Zusatzheizung			
Nennwärmeleistung (**)	P _{sup}	0.0	kW
Art der Energiezufuhr	Elektrisch		
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/56	dB
Jährlicher Energieverbrauch	Q _{HE}	1604	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Kontaktفاصيل	Siehe Rückseite des Handbuchs		
Täglicher Kraftstoffverbrauch			
Jährlicher Kraftstoffverbrauch			
Jährlicher Kraftstoffverbrauch			
(**) Wenn C _{dh} nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient C _{dh} = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	4kW (Heizung 3kW) ;4 kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 4kW(Heizung 3kW))nein(für 4kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	kälter		
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	3.7	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	2.3	kW
T _j = + 2°C	P _{dh}	1.4	kW
T _j = +7°C	P _{dh}	1.6	kW
T _j = + 12°C	P _{dh}	1.5	kW
T _j = zweiwertige Temperatur	P _{dh}	3.0	kW
T _j = Betriebsgrenztemperatur	P _{dh}	2.5	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-15	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.010	kW
Thermostat-Aus-Modus	P _{TO}	0.010	kW
Standby Modus	P _{SB}	0.010	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/56	dB
Jährlicher Energieverbrauch	Q _{HE}	3308	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Kontaktetails		Siehe Rückseite des Handbuchs	
Täglicher Kraftstoffverbrauch			
Jährlicher Kraftstoffverbrauch			
Art der Energiezufuhr			
Nennwärmeleistung (**)			
Zusatzheizung			
Betriebsgrenztemperatur Heizwasser			
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur			
Zyklus-Intervall-Effizienz			
Betriebsgrenztemperatur Heizwasser			
Nennwärmeleistung (**)			
Art der Energiezufuhr			
Elektrisch			
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	6kW (Heizung 3kW) ;6 kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 6kW(Heizung 3kW))nein(für 6kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Durchschnitt		
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	7.0	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	6.2	kW
T _j = + 2°C	P _{dh}	3.6	kW
T _j = +7°C	P _{dh}	2.5	kW
T _j = + 12°C	P _{dh}	1.4	kW
T _j = zweiwertige Temperatur	P _{dh}	6.2	kW
T _j = Betriebsgrenztemperatur	P _{dh}	6.0	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.010	kW
Thermostat-Aus-Modus	P _{TO}	0.010	kW
Standby Modus	P _{SB}	0.010	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/59	dB
Jährlicher Energieverbrauch	Q _{HE}	3120	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Kontaktفاصيل		Siehe Rückseite des Handbuchs	
Täglicher Kraftstoffverbrauch Q _{fuel} N/A kWh Jährlicher Kraftstoffverbrauch AFC N/A GJ			
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Modell(s):	6kW (Heizung 3kW) ;6 kW
Luft-Wasser-Wärmepumpe	Ja
Wasser-Wasser-Wärmepumpe	nien
Sole/Wasser Wärmepumpe	nein
Niedertemperatur-Wärmepumpe	nein
Ausgestattet mit einer Zusatzheizung	Ja(für 6kW(Heizung 3kW))nein(für 6kW)
Kombiheizgerät mit Wärmepumpe	nein
Deklariertes Klimazustand;	Wärmer
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.	

Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	6.0	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	264	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	N/A	kW	$T_j = -7^\circ\text{C}$	COPd	N/A	-
$T_j = +2^\circ\text{C}$	Pdh	5.9	kW	$T_j = +2^\circ\text{C}$	COPd	3.49	-
$T_j = +7^\circ\text{C}$	Pdh	3.9	kW	$T_j = +7^\circ\text{C}$	COPd	5.71	-
$T_j = +12^\circ\text{C}$	Pdh	2.0	kW	$T_j = +12^\circ\text{C}$	COPd	8.78	-
$T_j =$ zweiwertige Temperatur	Pdh	3.9	kW	$T_j =$ zweiwertige Temperatur	COPd	5.71	-
$T_j =$ Betriebsgrenztemperatur	Pdh	5.9	kW	$T_j =$ Betriebsgrenztemperatur	COPd	3.49	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	Pdh	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	COPd	N/A	-
Zweiwertige Temperatur	T_{biv}	7	$^\circ\text{C}$	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	2	$^\circ\text{C}$
Zyklusintervallkapazität für Heizung	P_{cyh}	N/A	kW	Zyklus-Intervall-Effizienz	COP_{cyc}	N/A	-
Abbaukoeffizient (**)	C_{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	$^\circ\text{C}$
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P_{OFF}	0.010	kW	Nennwärmeleistung (**)	P_{sup}	0.1	kW
Thermostat-Aus-Modus	P_{TO}	0.010	kW	Art der Energiezufuhr	Elektrisch		
Standby Modus	P_{SB}	0.010	kW				
Kurbelgehäuseheizungsmodus	P_{CK}	0.000	kW				

Andere Dinge							
Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	2800	m^3/h
Schalleistungspegel, innen/außen	L_{WA}	-/59	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m^3/h
Jährlicher Energieverbrauch	Q_{HE}	1202	kWh				
Für Kombiheizgeräte mit Wärmepumpe:							
Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q_{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q_{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ
Kontaktفاصيل	Siehe Rückseite des Handbuchs						

(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(T_j). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.

Technisch Parameter

Technisch Parameter			
Modell(s):	6kW (Heizung 3kW) ;6 kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 6kW(Heizung 3kW))nein(für 6kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	kälter		
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	6.0	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	3.6	kW
T _j = + 2°C	P _{dh}	2.2	kW
T _j = +7°C	P _{dh}	1.5	kW
T _j = + 12°C	P _{dh}	1.6	kW
T _j = zweiwertige Temperatur	P _{dh}	4.9	kW
T _j = Betriebsgrenztemperatur	P _{dh}	3.6	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-15	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.010	kW
Thermostat-Aus-Modus	P _{TO}	0.010	kW
Standby Modus	P _{SB}	0.010	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/59	dB
Jährlicher Energieverbrauch	Q _{HE}	3515	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh
Kontaktdetails	Siehe Rückseite des Handbuchs		
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	6kW (Heizung 3kW) ;6 kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 4kW(Heizung 3kW))nein(für 4kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Durchschnitt		
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	6.0	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	5.3	kW
T _j = + 2°C	P _{dh}	3.2	kW
T _j = +7°C	P _{dh}	2.1	kW
T _j = + 12°C	P _{dh}	1.4	kW
T _j = zweiwertige Temperatur	P _{dh}	5.3	kW
T _j = Betriebsgrenztemperatur	P _{dh}	5.0	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.010	kW
Thermostat-Aus-Modus	P _{TO}	0.010	kW
Standby Modus	P _{SB}	0.010	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/59	dB
Jährlicher Energieverbrauch	Q _{HE}	3557	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Kontaktفاصيل		Siehe Rückseite des Handbuchs	
Täglicher Kraftstoffverbrauch			
Jährlicher Kraftstoffverbrauch			
Art der Energiezufuhr			
Nennwärmeleistung (**)			
Zusatzheizung			
Betriebsgrenztemperatur Heizwasser			
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur			
Zyklus-Intervall-Effizienz			
Betriebsgrenztemperatur Heizwasser			
Nennwärmeleistung (**)			
Art der Energiezufuhr			
Elektrisch			
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	6kW (Heizung 3kW) ;6kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 6kW(Heizung 3kW))nein(für 6kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Wärmer		
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	5.0	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	N/A	kW
T _j = + 2°C	P _{dh}	5.0	kW
T _j = +7°C	P _{dh}	3.2	kW
T _j = + 12°C	P _{dh}	1.6	kW
T _j = zweiwertige Temperatur	P _{dh}	3.2	kW
T _j = Betriebsgrenztemperatur	P _{dh}	5.0	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.010	kW
Thermostat-Aus-Modus	P _{TO}	0.010	kW
Standby Modus	P _{SB}	0.010	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/59	dB
Jährlicher Energieverbrauch	Q _{HE}	1580	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Kontaktفاصيل		Siehe Rückseite des Handbuchs	
Täglicher Kraftstoffverbrauch Q _{fuel} N/A kWh Jährlicher Kraftstoffverbrauch AFC N/A GJ			
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Modell(s):	6kW (Heizung 3kW) ;6kW
Luft-Wasser-Wärmepumpe	Ja
Wasser-Wasser-Wärmepumpe	nien
Sole/Wasser Wärmepumpe	nein
Niedertemperatur-Wärmepumpe	nein
Ausgestattet mit einer Zusatzheizung	Ja(für 6kW(Heizung 3kW))nein(für 6kW)
Kombiheizgerät mit Wärmepumpe	nein
Deklariertes Klimazustand;	kälter
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.	

Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	5.0	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	113	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	3.1	kW	$T_j = -7^\circ\text{C}$	COPd	2.49	-
$T_j = +2^\circ\text{C}$	Pdh	1.8	kW	$T_j = +2^\circ\text{C}$	COPd	3.52	-
$T_j = +7^\circ\text{C}$	Pdh	1.2	kW	$T_j = +7^\circ\text{C}$	COPd	4.10	-
$T_j = +12^\circ\text{C}$	Pdh	1.4	kW	$T_j = +12^\circ\text{C}$	COPd	6.18	-
T_j = zweiwertige Temperatur	Pdh	4.0	kW	T_j = zweiwertige Temperatur	COPd	1.74	-
T_j = Betriebsgrenztemperatur	Pdh	2.5	kW	T_j = Betriebsgrenztemperatur	COPd	1.17	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20 °C)	Pdh	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20 °C)	COPd	N/A	-
Zweiwertige Temperatur	T_{biv}	-15	°C	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-22	°C
Zyklusintervallkapazität für Heizung	P_{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP_{cyc}	N/A	-
Abbaukoeffizient (**)	C_{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P_{OFF}	0.010	kW	Nennwärmeleistung (**)	P_{sup}	2.5	kW
Thermostat-Aus-Modus	P_{TO}	0.010	kW	Art der Energiezufuhr Elektrisch			
Standby Modus	P_{SB}	0.010	kW				
Kurbelgehäuseheizungsmodus	P_{CK}	0.000	kW				

Andere Dinge							
Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	2800	m^3/h
Schalleistungspegel, innen/außen	L_{WA}	-/59	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m^3/h
Jährlicher Energieverbrauch	Q_{HE}	4204	kWh				
Für Kombiheizgeräte mit Wärmepumpe:							
Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q_{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q_{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ
Kontaktفاصيل	Siehe Rückseite des Handbuchs						

(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(T_j). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.

Technisch Parameter

Technisch Parameter			
Modell(s):	8kW (Heizung 3kW) ;8kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 8kW(Heizung 3kW))nein(für 8kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Durchschnitt		
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	8	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	7.1	kW
T _j = + 2°C	P _{dh}	4.7	kW
T _j = +7°C	P _{dh}	3.0	kW
T _j = + 12°C	P _{dh}	1.7	kW
T _j = zweiwertige Temperatur	P _{dh}	7.1	kW
T _j = Betriebsgrenztemperatur	P _{dh}	6.5	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Artikel	Symbol	Wert	Einheit
Saisonale Raumheizungs-Energieeffizienz	η _s	200	%
Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	COP _d	3.12	-
T _j = + 2°C	COP _d	4.99	-
T _j = +7°C	COP _d	6.81	-
T _j = + 12°C	COP _d	8.00	-
T _j = zweiwertige Temperatur	COP _d	3.12	-
T _j = Betriebsgrenztemperatur	COP _d	2.84	-
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	COP _d	N/A	-
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-10	°C
Zyklus-Intervall-Effizienz	COP _{cyh}	N/A	-
Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Zusatzheizung			
Nennwärmeleistung (**)	P _{sup}	1.5	kW
Art der Energiezufuhr	Elektrisch		
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/60	dB
Jährlicher Energieverbrauch	Q _{HE}	3276	kWh
			Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
			Täglicher Kraftstoffverbrauch
			Q _{fuel}
			Jährlicher Kraftstoffverbrauch
			AFC
Kontaktفاصيل	Siehe Rückseite des Handbuchs		
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	8kW (Heizung 3kW) ;8kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 8kW(Heizung 3kW))nein(für 8kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Wärmer		
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	8	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	N/A	kW
T _j = + 2°C	P _{dh}	7.7	kW
T _j = +7°C	P _{dh}	5.0	kW
T _j = + 12°C	P _{dh}	2.6	kW
T _j = zweiwertige Temperatur	P _{dh}	5.0	kW
T _j = Betriebsgrenztemperatur	P _{dh}	7.7	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Artikel	Symbol	Wert	Einheit
Saisonale Raumheizungs-Energieeffizienz	η _s	278	%
Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	COP _d	N/A	-
T _j = + 2°C	COP _d	3.82	-
T _j = +7°C	COP _d	6.12	-
T _j = + 12°C	COP _d	9.15	-
T _j = zweiwertige Temperatur	COP _d	6.12	-
T _j = Betriebsgrenztemperatur	COP _d	3.82	-
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	COP _d	N/A	-
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	2	°C
Zyklus-Intervall-Effizienz	COP _{cyh}	N/A	-
Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Zusatzheizung			
Nennwärmeleistung (**)	P _{sup}	0.3	kW
Art der Energiezufuhr	Elektrisch		
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/60	dB
Jährlicher Energieverbrauch	Q _{HE}	1492	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
			%
			Täglicher Kraftstoffverbrauch
			Q _{fuel}
			N/A
			Jährlicher Kraftstoffverbrauch
			AFC
			N/A
			GJ
Kontaktفاصيل	Siehe Rückseite des Handbuchs		
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Modell(s):	8kW (Heizung 3kW) ;8kW						
Luft-Wasser-Wärmepumpe	Ja						
Wasser-Wasser-Wärmepumpe	nein						
Sole/Wasser Wärmepumpe	nein						
Niedertemperatur-Wärmepumpe	nein						
Ausgestattet mit einer Zusatzheizung	Ja(für 8kW(Heizung 3kW))nein(für 8kW)						
Kombiheizgerät mit Wärmepumpe	nein						
Deklariertes Klimazustand;	kälter						
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	7	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	167	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	4.4	kW	$T_j = -7^\circ\text{C}$	COPd	3.59	-
$T_j = +2^\circ\text{C}$	Pdh	2.6	kW	$T_j = +2^\circ\text{C}$	COPd	5.30	-
$T_j = +7^\circ\text{C}$	Pdh	1.6	kW	$T_j = +7^\circ\text{C}$	COPd	5.98	-
$T_j = +12^\circ\text{C}$	Pdh	1.9	kW	$T_j = +12^\circ\text{C}$	COPd	8.42	-
$T_j =$ zweiwertige Temperatur	Pdh	5.7	kW	$T_j =$ zweiwertige Temperatur	COPd	2.61	-
$T_j =$ Betriebsgrenztemperatur	Pdh	4.0	kW	$T_j =$ Betriebsgrenztemperatur	COPd	1.93	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	Pdh	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	COPd	N/A	-
Zweiwertige Temperatur	T_{biv}	-15	$^\circ\text{C}$	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-22	$^\circ\text{C}$
Zyklusintervallkapazität für Heizung	P_{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP_{cyc}	N/A	-
Abbaukoeffizient (**)	C_{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	$^\circ\text{C}$
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P_{OFF}	0.014	kW	Nennwärmeleistung (**)	P_{sup}	3.0	kW
Thermostat-Aus-Modus	P_{TO}	0.024	kW	Art der Energiezufuhr Elektrisch			
Standby Modus	P_{SB}	0.014	kW				
Kurbelgehäuseheizungsmodus	P_{CK}	0.000	kW				
Andere Dinge							
Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	4000	m^3/h
Schalleistungspegel, innen/außen	L_{WA}	-/60	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m^3/h
Jährlicher Energieverbrauch	Q_{HE}	4044	kWh				
Für Kombiheizgeräte mit Wärmepumpe:							
Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q_{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q_{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ
Kontaktفاصيل	Siehe Rückseite des Handbuchs						
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen $P_{designh}$, und die Nennwärmeleistung eines Zusatzheizgeräts P_{sup} ist gleich der Zusatzleistung zum Heizen $sup(T_j)$. (**) Wenn C_{dh} nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient $C_{dh} = 0,9$.							

Technisch Parameter

Technisch Parameter			
Modell(s):	8kW (Heizung 3kW) ;8kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 8kW(Heizung 3kW))nein(für 8kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Durchschnitt		
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	7	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	5.8	kW
T _j = + 2°C	P _{dh}	3.7	kW
T _j = +7°C	P _{dh}	2.4	kW
T _j = + 12°C	P _{dh}	1.6	kW
T _j = zweiwertige Temperatur	P _{dh}	5.8	kW
T _j = Betriebsgrenztemperatur	P _{dh}	5.0	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Artikel	Symbol	Wert	Einheit
Saisonale Raumheizungs-Energieeffizienz	η _s	136	%
Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	COP _d	2.20	-
T _j = + 2°C	COP _d	3.37	-
T _j = +7°C	COP _d	4.57	-
T _j = + 12°C	COP _d	5.87	-
T _j = zweiwertige Temperatur	COP _d	2.20	-
T _j = Betriebsgrenztemperatur	COP _d	1.84	-
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	COP _d	N/A	-
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-10	°C
Zyklus-Intervall-Effizienz	COP _{cyh}	N/A	-
Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Zusatzheizung			
Nennwärmeleistung (**)	P _{sup}	2.0	kW
Art der Energiezufuhr	Elektrisch		
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/60	dB
Jährlicher Energieverbrauch	Q _{HE}	3937	kWh
			Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
			%
			Täglicher Kraftstoffverbrauch
			Q _{fuel}
			N/A
			Jährlicher Kraftstoffverbrauch
			AFC
			N/A
			GJ
Kontaktفاصيل	Siehe Rückseite des Handbuchs		
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):		8kW (Heizung 3kW) ;8kW	
Luft-Wasser-Wärmepumpe		Ja	
Wasser-Wasser-Wärmepumpe		nein	
Sole/Wasser Wärmepumpe		nein	
Niedertemperatur-Wärmepumpe		nein	
Ausgestattet mit einer Zusatzheizung		Ja(für 8kW(Heizung 3kW))nein(für 8kW)	
Kombiheizgerät mit Wärmepumpe		nein	
Deklariertes Klimazustand;		Wärmer	
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	8	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	N/A	kW
T _j = + 2°C	P _{dh}	7.4	kW
T _j = +7°C	P _{dh}	4.9	kW
T _j = + 12°C	P _{dh}	2.2	kW
T _j = zweiwertige Temperatur	P _{dh}	4.9	kW
T _j = Betriebsgrenztemperatur	P _{dh}	7.4	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/60	dB
Jährlicher Energieverbrauch	Q _{HE}	2347	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh
Kontaktفاصيل		Siehe Rückseite des Handbuchs	
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	8kW (Heizung 3kW) ;8kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 8kW(Heizung 3kW))nein(für 8kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	kälter		
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	6	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	3.8	kW
T _j = + 2°C	P _{dh}	2.2	kW
T _j = +7°C	P _{dh}	1.4	kW
T _j = + 12°C	P _{dh}	1.5	kW
T _j = zweiwertige Temperatur	P _{dh}	4.8	kW
T _j = Betriebsgrenztemperatur	P _{dh}	3.2	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-15	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/60	dB
Jährlicher Energieverbrauch	Q _{HE}	4891	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh
Kontaktفاصيل	Siehe Rückseite des Handbuchs		
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	10kW (Heizung 3kW) ;10kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 8kW(Heizung 3kW))nein(für 8kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Durchschnitt		
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	9	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	8.0	kW
T _j = + 2°C	P _{dh}	5.0	kW
T _j = +7°C	P _{dh}	3.1	kW
T _j = + 12°C	P _{dh}	2.0	kW
T _j = zweiwertige Temperatur	P _{dh}	8.0	kW
T _j = Betriebsgrenztemperatur	P _{dh}	7.3	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/61	dB
Jährlicher Energieverbrauch	Q _{HE}	3702	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh
Kontaktفاصيل	Siehe Rückseite des Handbuchs		
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):		10kW (Heizung 3kW) ;10kW	
Luft-Wasser-Wärmepumpe		Ja	
Wasser-Wasser-Wärmepumpe		nein	
Sole/Wasser Wärmepumpe		nein	
Niedertemperatur-Wärmepumpe		nein	
Ausgestattet mit einer Zusatzheizung		Ja(für 10kW(Heizung 3kW))nein(für 10kW)	
Kombiheizgerät mit Wärmepumpe		nein	
Deklariertes Klimazustand;		Wärmer	
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	9	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	N/A	kW
T _j = + 2°C	P _{dh}	8.4	kW
T _j = +7°C	P _{dh}	5.5	kW
T _j = + 12°C	P _{dh}	2.4	kW
T _j = zweiwertige Temperatur	P _{dh}	5.5	kW
T _j = Betriebsgrenztemperatur	P _{dh}	8.4	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/61	dB
Jährlicher Energieverbrauch	Q _{HE}	1694	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh
Kontaktetails		Siehe Rückseite des Handbuchs	
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	10kW (Heizung 3kW) ;10kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 10kW(Heizung 3kW))nein(für 10kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Wärmer		
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	8	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	4.7	kW
T _j = + 2°C	P _{dh}	3.0	kW
T _j = +7°C	P _{dh}	2.0	kW
T _j = + 12°C	P _{dh}	1.9	kW
T _j = zweiwertige Temperatur	P _{dh}	6.3	kW
T _j = Betriebsgrenztemperatur	P _{dh}	4.6	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-15	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Artikel	Symbol	Wert	Einheit
Saisonale Raumheizungs-Energieeffizienz	η _s	170	%
Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	COP _d	3.50	-
T _j = + 2°C	COP _d	5.51	-
T _j = +7°C	COP _d	6.63	-
T _j = + 12°C	COP _d	8.58	-
T _j = zweiwertige Temperatur	COP _d	2.56	-
T _j = Betriebsgrenztemperatur	COP _d	1.99	-
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	COP _d	N/A	-
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-22	°C
Zyklus-Intervall-Effizienz	COP _{cyh}	N/A	-
Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Zusatzheizung			
Nennwärmeleistung (**)	P _{sup}	3.4	kW
Art der Energiezufuhr	Elektrisch		
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/61	dB
Jährlicher Energieverbrauch	Q _{HE}	4417	kWh
			Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
			%
			Täglicher Kraftstoffverbrauch
			Q _{fuel}
			N/A
			Jährlicher Kraftstoffverbrauch
			AFC
			N/A
			GJ
Kontaktفاصيل	Siehe Rückseite des Handbuchs		
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):		10kW (Heizung 3kW) ;10kW	
Luft-Wasser-Wärmepumpe		Ja	
Wasser-Wasser-Wärmepumpe		nein	
Sole/Wasser Wärmepumpe		nein	
Niedertemperatur-Wärmepumpe		nein	
Ausgestattet mit einer Zusatzheizung		Ja(für 10kW(Heizung 3kW))nein(für 10kW)	
Kombiheizgerät mit Wärmepumpe		nein	
Deklariertes Klimazustand;		Durchschnitt	
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	8	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	6.8	kW
T _j = + 2°C	P _{dh}	4.2	kW
T _j = +7°C	P _{dh}	2.6	kW
T _j = + 12°C	P _{dh}	1.8	kW
T _j = zweiwertige Temperatur	P _{dh}	6.8	kW
T _j = Betriebsgrenztemperatur	P _{dh}	5.2	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/61	dB
Jährlicher Energieverbrauch	Q _{HE}	4537	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Kontaktفاصيل		Siehe Rückseite des Handbuchs	
Täglicher Kraftstoffverbrauch			
Jährlicher Kraftstoffverbrauch		AFC	
Nennwärmeleistung (**)			
Art der Energiezufuhr		Elektrisch	
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	10kW (Heizung 3kW) ;10kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 10kW(Heizung 3kW))nein(für 10kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Wärmer		
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	8	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	N/A	kW
T _j = + 2°C	P _{dh}	7.6	kW
T _j = +7°C	P _{dh}	5.2	kW
T _j = + 12°C	P _{dh}	2.5	kW
T _j = zweiwertige Temperatur	P _{dh}	5.2	kW
T _j = Betriebsgrenztemperatur	P _{dh}	7.6	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/61	dB
Jährlicher Energieverbrauch	Q _{HE}	2353	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Kontaktdetails		Siehe Rückseite des Handbuchs	
Täglicher Kraftstoffverbrauch			
Jährlicher Kraftstoffverbrauch		AFC	N/A
Art der Energiezufuhr			
Nennwärmeleistung (**)		P _{sup}	0.4
		kW	
		Elektrisch	
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	10kW (Heizung 3kW) ;10kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 10kW(Heizung 3kW))nein(für 10kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Kälter		
PParameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	7	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	4.1	kW
T _j = + 2°C	P _{dh}	2.6	kW
T _j = +7°C	P _{dh}	1.7	kW
T _j = + 12°C	P _{dh}	1.7	kW
T _j = zweiwertige Temperatur	P _{dh}	5.5	kW
T _j = Betriebsgrenztemperatur	P _{dh}	2.8	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-15	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Artikel	Symbol	Wert	Einheit
Saisonale Raumheizungs-Energieeffizienz	η _s	116	%
Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	COP _d	2.53	-
T _j = + 2°C	COP _d	3.51	-
T _j = +7°C	COP _d	4.52	-
T _j = + 12°C	COP _d	6.51	-
T _j = zweiwertige Temperatur	COP _d	1.92	-
T _j = Betriebsgrenztemperatur	COP _d	1.24	-
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	COP _d	N/A	-
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-22	°C
Zyklus-Intervall-Effizienz	COP _{cyh}	N/A	-
Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Zusatzheizung			
Nennwärmeleistung (**)	P _{sup}	4.2	kW
Art der Energiezufuhr	Elektrisch		
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/61	dB
Jährlicher Energieverbrauch	Q _{HE}	5613	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Täglicher Kraftstoffverbrauch		Q _{fuel}	N/A
Jährlicher Kraftstoffverbrauch		AFC	N/A
Kontakt details		Siehe Rückseite des Handbuchs	
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	12kW (Heizung 3kW) ;12kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 12kW(Heizung 3kW))nein(für 12kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Durchschnitt		
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	12	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	10.7	kW
T _j = + 2°C	P _{dh}	7.0	kW
T _j = +7°C	P _{dh}	4.6	kW
T _j = + 12°C	P _{dh}	4.2	kW
T _j = zweiwertige Temperatur	P _{dh}	10.7	kW
T _j = Betriebsgrenztemperatur	P _{dh}	11.4	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Artikel			
Artikel	Symbol	Wert	Einheit
Saisonale Raumheizungs-Energieeffizienz	η _s	188	%
Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	COP _d	2.90	-
T _j = + 2°C	COP _d	4.53	-
T _j = +7°C	COP _d	6.66	-
T _j = + 12°C	COP _d	8.92	-
T _j = zweiwertige Temperatur	COP _d	2.90	-
T _j = Betriebsgrenztemperatur	COP _d	2.63	-
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	COP _d	N/A	-
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-10	°C
Zyklus-Intervall-Effizienz	COP _{cyh}	N/A	-
Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Zusatzheizung			
Nennwärmeleistung (**)	P _{sup}	0.6	kW
Art der Energiezufuhr	Elektrisch		
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/64	dB
Jährlicher Energieverbrauch	Q _{HE}	5261	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Täglicher Kraftstoffverbrauch		Q _{fuel}	N/A
Jährlicher Kraftstoffverbrauch		AFC	N/A
Kontaktفاصيل			
Siehe Rückseite des Handbuchs			
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	12kW (Heizung 3kW) ;12kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 12kW(Heizung 3kW))nein(für 12kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Wärmer		
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	11	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	N/A	kW
T _j = + 2°C	P _{dh}	11.1	kW
T _j = +7°C	P _{dh}	7.1	kW
T _j = + 12°C	P _{dh}	4.7	kW
T _j = zweiwertige Temperatur	P _{dh}	7.1	kW
T _j = Betriebsgrenztemperatur	P _{dh}	11.1	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Artikel	Symbol	Wert	Einheit
Saisonale Raumheizungs-Energieeffizienz	η _s	253	%
Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	COP _d	N/A	-
T _j = + 2°C	COP _d	3.62	-
T _j = +7°C	COP _d	5.64	-
T _j = + 12°C	COP _d	8.33	-
T _j = zweiwertige Temperatur	COP _d	5.64	-
T _j = Betriebsgrenztemperatur	COP _d	3.62	-
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	COP _d	N/A	-
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	2	°C
Zyklus-Intervall-Effizienz	COP _{cyh}	N/A	-
Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Zusatzheizung			
Nennwärmeleistung (**)	P _{sup}	0.0	kW
Art der Energiezufuhr	Elektrisch		
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/64	dB
Jährlicher Energieverbrauch	Q _{HE}	2326	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
			%
			Täglicher Kraftstoffverbrauch
			Q _{fuel}
			N/A
			Jährlicher Kraftstoffverbrauch
			AFC
			N/A
			GJ
Kontaktفاصيل	Siehe Rückseite des Handbuchs		
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):		12kW (Heizung 3kW) ;12kW	
Luft-Wasser-Wärmepumpe		Ja	
Wasser-Wasser-Wärmepumpe		nein	
Sole/Wasser Wärmepumpe		nein	
Niedertemperatur-Wärmepumpe		nein	
Ausgestattet mit einer Zusatzheizung		Ja(für 12kW(Heizung 3kW))nein(für 12kW)	
Kombiheizgerät mit Wärmepumpe		nein	
Deklariertes Klimazustand;		Kälter	
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	11	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	7.2	kW
T _j = + 2°C	P _{dh}	4.1	kW
T _j = +7°C	P _{dh}	3.2	kW
T _j = + 12°C	P _{dh}	3.6	kW
T _j = zweiwertige Temperatur	P _{dh}	9.3	kW
T _j = Betriebsgrenztemperatur	P _{dh}	7.1	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-15	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/64	dB
Jährlicher Energieverbrauch	Q _{HE}	6746	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh
Kontaktetails		Siehe Rückseite des Handbuchs	
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	12kW (Heizung 3kW) ;12kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 12kW(Heizung 3kW))nein(für 12kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Durchschnitt		
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	12	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	10.7	kW
T _j = + 2°C	P _{dh}	6.6	kW
T _j = +7°C	P _{dh}	4.4	kW
T _j = + 12°C	P _{dh}	4.0	kW
T _j = zweiwertige Temperatur	P _{dh}	10.7	kW
T _j = Betriebsgrenztemperatur	P _{dh}	9.9	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/64	dB
Jährlicher Energieverbrauch	Q _{HE}	7224	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Kontaktفاصيل		Siehe Rückseite des Handbuchs	
Täglicher Kraftstoffverbrauch			
Jährlicher Kraftstoffverbrauch		AFC	
Nennwärmeleistung (**)			
P _{sup}		2.1	kW
Art der Energiezufuhr		Elektrisch	
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	12kW (Heizung 3kW) ;12kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 12kW(Heizung 3kW))nein(für 12kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Wärmer		
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	12	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	N/A	kW
T _j = + 2°C	P _{dh}	12.1	kW
T _j = +7°C	P _{dh}	8.0	kW
T _j = + 12°C	P _{dh}	4.3	kW
T _j = zweiwertige Temperatur	P _{dh}	8.0	kW
T _j = Betriebsgrenztemperatur	P _{dh}	12.1	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/64	dB
Jährlicher Energieverbrauch	Q _{HE}	3761	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Kontaktفاصيل		Siehe Rückseite des Handbuchs	
Täglicher Kraftstoffverbrauch			
Jährlicher Kraftstoffverbrauch			
Art der Energiezufuhr			
Nennwärmeleistung (**)			
Zusatzheizung			
Betriebsgrenztemperatur Heizwasser			
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur			
Zyklus-Intervall-Effizienz			
Betriebsgrenztemperatur			
Nennwärmeleistung (**)			
Art der Energiezufuhr			
Elektrisch			
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):		12kW (Heizung 3kW) ;12kW	
Luft-Wasser-Wärmepumpe		Ja	
Wasser-Wasser-Wärmepumpe		nein	
Sole/Wasser Wärmepumpe		nein	
Niedertemperatur-Wärmepumpe		nein	
Ausgestattet mit einer Zusatzheizung		Ja(für 12kW(Heizung 3kW))nein(für 12kW)	
Kombiheizgerät mit Wärmepumpe		nein	
Deklariertes Klimazustand;		Kälter	
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	10	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	6.7	kW
T _j = + 2°C	P _{dh}	4.0	kW
T _j = +7°C	P _{dh}	2.9	kW
T _j = + 12°C	P _{dh}	3.3	kW
T _j = zweiwertige Temperatur	P _{dh}	8.5	kW
T _j = Betriebsgrenztemperatur	P _{dh}	4.6	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-15	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/64	dB
Jährlicher Energieverbrauch	Q _{HE}	8470	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Kontakt-details		Siehe Rückseite des Handbuchs	
Täglicher Kraftstoffverbrauch			
Jährlicher Kraftstoffverbrauch		AFC	N/A
Jährlicher Energieverbrauch			
GJ			
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Modell(s):	14kW (Heizung 3kW) ;14kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 14kW(Heizung 3kW))nein(für 14kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Durchschnitt		
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	14	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	12.4	kW
T _j = + 2°C	P _{dh}	7.5	kW
T _j = +7°C	P _{dh}	5.2	kW
T _j = + 12°C	P _{dh}	4.5	kW
T _j = zweiwertige Temperatur	P _{dh}	12.4	kW
T _j = Betriebsgrenztemperatur	P _{dh}	12.8	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Artikel	Symbol	Wert	Einheit
Saisonale Raumheizungs-Energieeffizienz	η _s	182	%
Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	COP _d	2.80	-
T _j = + 2°C	COP _d	4.38	-
T _j = +7°C	COP _d	6.53	-
T _j = + 12°C	COP _d	8.58	-
T _j = zweiwertige Temperatur	COP _d	2.80	-
T _j = Betriebsgrenztemperatur	COP _d	2.51	-
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	COP _d	N/A	-
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	10	°C
Zyklus-Intervall-Effizienz	COP _{cyh}	N/A	-
Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Zusatzheizung			
Nennwärmeleistung (**)	P _{sup}	1.2	kW
Art der Energiezufuhr	Elektrisch		
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/66	dB
Jährlicher Energieverbrauch	Q _{HE}	6238	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Kontaktفاصيل		Siehe Rückseite des Handbuchs	
Täglicher Kraftstoffverbrauch			
		Q _{fuel}	N/A
		AFC	N/A
			GJ
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	14kW (Heizung 3kW) ;14kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 14kW(Heizung 3kW))nein(für 14kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Wärmer		
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	12	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	N/A	kW
T _j = + 2°C	P _{dh}	12.3	kW
T _j = +7°C	P _{dh}	8.0	kW
T _j = + 12°C	P _{dh}	4.2	kW
T _j = zweiwertige Temperatur	P _{dh}	8.0	kW
T _j = Betriebsgrenztemperatur	P _{dh}	12.3	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Artikel	Symbol	Wert	Einheit
Saisonale Raumheizungs-Energieeffizienz	η _s	248	%
Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	COP _d	2.58	-
T _j = + 2°C	COP _d	3.68	-
T _j = +7°C	COP _d	4.57	-
T _j = + 12°C	COP _d	6.59	-
T _j = zweiwertige Temperatur	COP _d	1.84	-
T _j = Betriebsgrenztemperatur	COP _d	1.21	-
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	COP _d	N/A	-
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-22	°C
Zyklus-Intervall-Effizienz	COP _{cyh}	N/A	-
Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Zusatzheizung			
Nennwärmeleistung (**)	P _{sup}	5.4	kW
Art der Energiezufuhr	Elektrisch		
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/66	dB
Jährlicher Energieverbrauch	Q _{HE}	2638	kWh
			Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
			%
			Täglicher Kraftstoffverbrauch
			Q _{fuel}
			N/A
			Jährlicher Kraftstoffverbrauch
			AFC
			N/A
			GJ
Kontaktفاصيل	Siehe Rückseite des Handbuchs		
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	14kW (Heizung 3kW) ;14kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 14kW(Heizung 3kW))nein(für 14kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Kälter		
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	13	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	8.2	kW
T _j = + 2°C	P _{dh}	4.6	kW
T _j = +7°C	P _{dh}	3.4	kW
T _j = + 12°C	P _{dh}	3.8	kW
T _j = zweiwertige Temperatur	P _{dh}	10.6	kW
T _j = Betriebsgrenztemperatur	P _{dh}	7.9	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-15	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Artikel	Symbol	Wert	Einheit
Saisonale Raumheizungs-Energieeffizienz	η _s	156	%
Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	COP _d	3.35	-
T _j = + 2°C	COP _d	4.72	-
T _j = +7°C	COP _d	6.10	-
T _j = + 12°C	COP _d	8.00	-
T _j = zweiwertige Temperatur	COP _d	2.55	-
T _j = Betriebsgrenztemperatur	COP _d	2.10	-
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	COP _d	N/A	-
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-22	°C
Zyklus-Intervall-Effizienz	COP _{cyh}	N/A	-
Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Zusatzheizung			
Nennwärmeleistung (**)	P _{sup}	5.1	kW
Art der Energiezufuhr	Elektrisch		
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/66	dB
Jährlicher Energieverbrauch	Q _{HE}	8111	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Kontaktفاصيل	Siehe Rückseite des Handbuchs		
Täglicher Kraftstoffverbrauch			
Jährlicher Kraftstoffverbrauch			
(**) Wenn C _{dh} nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient C _{dh} = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	14kW (Heizung 3kW) ;14kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 14kW(Heizung 3kW))nein(für 14kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Durchschnitt		
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	12	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	10.9	kW
T _j = + 2°C	P _{dh}	6.9	kW
T _j = +7°C	P _{dh}	4.5	kW
T _j = + 12°C	P _{dh}	4.0	kW
T _j = zweiwertige Temperatur	P _{dh}	10.9	kW
T _j = Betriebsgrenztemperatur	P _{dh}	10.3	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Artikel	Symbol	Wert	Einheit
Saisonale Raumheizungs-Energieeffizienz	η _s	134	%
Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	COP _d	1.99	-
T _j = + 2°C	COP _d	3.26	-
T _j = +7°C	COP _d	4.79	-
T _j = + 12°C	COP _d	7.25	-
T _j = zweiwertige Temperatur	COP _d	1.99	-
T _j = Betriebsgrenztemperatur	COP _d	1.81	-
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	COP _d	N/A	-
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-10	°C
Zyklus-Intervall-Effizienz	COP _{cyh}	N/A	-
Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Zusatzheizung			
Nennwärmeleistung (**)	P _{sup}	1.7	kW
Art der Energiezufuhr	Elektrisch		
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/66	dB
Jährlicher Energieverbrauch	Q _{HE}	7427	kWh
			Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
			%
			Täglicher Kraftstoffverbrauch
			Q _{fuel}
			N/A
			kWh
			Jährlicher Kraftstoffverbrauch
			AFC
			N/A
			GJ
Kontaktفاصيل	Siehe Rückseite des Handbuchs		
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	14kW (Heizung 3kW) ;14kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 14kW(Heizung 3kW))nein(für 14kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Wärmer		
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	14	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	N/A	kW
T _j = + 2°C	P _{dh}	13.1	kW
T _j = +7°C	P _{dh}	9.0	kW
T _j = + 12°C	P _{dh}	4.1	kW
T _j = zweiwertige Temperatur	P _{dh}	9.0	kW
T _j = Betriebsgrenztemperatur	P _{dh}	13.1	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/66	dB
Jährlicher Energieverbrauch	Q _{HE}	4323	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh
Kontaktdetails		Siehe Rückseite des Handbuchs	
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):		14kW (Heizung 3kW) ;14kW	
Luft-Wasser-Wärmepumpe		Ja	
Wasser-Wasser-Wärmepumpe		nein	
Sole/Wasser Wärmepumpe		nein	
Niedertemperatur-Wärmepumpe		nein	
Ausgestattet mit einer Zusatzheizung		Ja(für 14kW(Heizung 3kW))nein(für 14kW)	
Kombiheizgerät mit Wärmepumpe		nein	
Deklariertes Klimazustand;		Kälter	
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	11	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	7.2	kW
T _j = + 2°C	P _{dh}	4.2	kW
T _j = +7°C	P _{dh}	3.1	kW
T _j = + 12°C	P _{dh}	3.6	kW
T _j = zweiwertige Temperatur	P _{dh}	8.9	kW
T _j = Betriebsgrenztemperatur	P _{dh}	4.4	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-15	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/66	dB
Jährlicher Energieverbrauch	Q _{HE}	8975	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Täglicher Kraftstoffverbrauch		Q _{fuel}	N/A
Jährlicher Kraftstoffverbrauch		AFC	N/A
Kontaktetails		Siehe Rückseite des Handbuchs	
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):		16kW (Heizung 3kW) ;16kW	
Luft-Wasser-Wärmepumpe		Ja	
Wasser-Wasser-Wärmepumpe		nein	
Sole/Wasser Wärmepumpe		nein	
Niedertemperatur-Wärmepumpe		nein	
Ausgestattet mit einer Zusatzheizung		Ja(für 16kW(Heizung 3kW))nein(für 16kW)	
Kombiheizgerät mit Wärmepumpe		nein	
Deklariertes Klimazustand;		Durchschnitt	
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	15	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	13.4	kW
T _j = + 2°C	P _{dh}	8.0	kW
T _j = +7°C	P _{dh}	5.4	kW
T _j = + 12°C	P _{dh}	4.6	kW
T _j = zweiwertige Temperatur	P _{dh}	13.4	kW
T _j = Betriebsgrenztemperatur	P _{dh}	13.4	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/68	dB
Jährlicher Energieverbrauch	Q _{HE}	6863	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh
Kontaktفاصيل		Siehe Rückseite des Handbuchs	
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	12kW (Heizung 3kW) ;12kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 12kW(Heizung 3kW))nein(für 12kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Wärmer		
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	13	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	N/A	kW
T _j = + 2°C	P _{dh}	13.3	kW
T _j = +7°C	P _{dh}	8.5	kW
T _j = + 12°C	P _{dh}	4.8	kW
T _j = zweiwertige Temperatur	P _{dh}	8.5	kW
T _j = Betriebsgrenztemperatur	P _{dh}	13.3	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Artikel	Symbol	Wert	Einheit
Saisonale Raumheizungs-Energieeffizienz	η _s	239	%
Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	COP _d	N/A	-
T _j = + 2°C	COP _d	3.33	-
T _j = +7°C	COP _d	5.19	-
T _j = + 12°C	COP _d	7.95	-
T _j = zweiwertige Temperatur	COP _d	5.19	-
T _j = Betriebsgrenztemperatur	COP _d	3.33	-
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	COP _d	N/A	-
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	2	°C
Zyklus-Intervall-Effizienz	COP _{cyh}	N/A	-
Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Zusatzheizung			
Nennwärmeleistung (**)	P _{sup}	0.0	kW
Art der Energiezufuhr	Elektrisch		
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/68	dB
Jährlicher Energieverbrauch	Q _{HE}	2934	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Kontaktفاصيل		Siehe Rückseite des Handbuchs	
Täglicher Kraftstoffverbrauch			
Jährlicher Kraftstoffverbrauch		AFC	
(**) Wenn C _{dh} nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient C _{dh} = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):		16kW (Heizung 3kW) ;16kW	
Luft-Wasser-Wärmepumpe		Ja	
Wasser-Wasser-Wärmepumpe		nein	
Sole/Wasser Wärmepumpe		nein	
Niedertemperatur-Wärmepumpe		nein	
Ausgestattet mit einer Zusatzheizung		Ja(für 16kW(Heizung 3kW))nein(für 16kW)	
Kombiheizgerät mit Wärmepumpe		nein	
Deklariertes Klimazustand;		Kälter	
PParameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	14	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	9.1	kW
T _j = + 2°C	Pdh	5.0	kW
T _j = +7°C	Pdh	4.2	kW
T _j = + 12°C	Pdh	3.7	kW
T _j = zweiwertige Temperatur	Pdh	11.3	kW
T _j = Betriebsgrenztemperatur	Pdh	9.8	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	Pdh	N/A	kW
Zweiwertige Temperatur	T _{biv}	-15	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Artikel		Symbol	Wert
Saisonale Raumheizungs-Energieeffizienz		η _s	156 %
Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	COPd	3.30	-
T _j = + 2°C	COPd	4.87	-
T _j = +7°C	COPd	6.50	-
T _j = + 12°C	COPd	7.59	-
T _j = zweiwertige Temperatur	COPd	2.28	-
T _j = Betriebsgrenztemperatur	COPd	1.89	-
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	COPd	N/A	-
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-22	°C
Zyklus-Intervall-Effizienz	COP _{cyh}	N/A	-
Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Zusatzheizung			
Nennwärmeleistung (**)	P _{sup}	4.2	kW
Art der Energiezufuhr		Elektrisch	
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/68	dB
Jährlicher Energieverbrauch	Q _{HE}	8618	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Täglicher Kraftstoffverbrauch		Q _{fuel}	N/A
Jährlicher Kraftstoffverbrauch		AFC	N/A
Kontaktفاصيل		Siehe Rückseite des Handbuchs	
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	16kW (Heizung 3kW) ;16kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 16kW(Heizung 3kW))nein(für 16kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Durchschnitt		
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	13	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	11.3	kW
T _j = + 2°C	P _{dh}	7.3	kW
T _j = +7°C	P _{dh}	4.8	kW
T _j = + 12°C	P _{dh}	4.0	kW
T _j = zweiwertige Temperatur	P _{dh}	11.3	kW
T _j = Betriebsgrenztemperatur	P _{dh}	11.2	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/68	dB
Jährlicher Energieverbrauch	Q _{HE}	7593	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Kontakt details		Siehe Rückseite des Handbuchs	
Täglicher Kraftstoffverbrauch			
Jährlicher Kraftstoffverbrauch			
Art der Energiezufuhr			
Nennwärmeleistung (**)			
Zusatzheizung			
Betriebsgrenztemperatur Heizwasser			
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur			
Zyklus-Intervall-Effizienz			
Betriebsgrenztemperatur Heizwasser			
Nennwärmeleistung (**)			
Art der Energiezufuhr			
Elektrisch			
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	16kW (Heizung 3kW) ;16kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 16kW(Heizung 3kW))nein(für 16kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Wärmer		
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	14	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	N/A	kW
T _j = + 2°C	P _{dh}	13.2	kW
T _j = +7°C	P _{dh}	9.0	kW
T _j = + 12°C	P _{dh}	4.1	kW
T _j = zweiwertige Temperatur	P _{dh}	9.0	kW
T _j = Betriebsgrenztemperatur	P _{dh}	13.2	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	7	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/68	dB
Jährlicher Energieverbrauch	Q _{HE}	4329	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh
Kontaktفاصيل	Siehe Rückseite des Handbuchs		
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Technisch Parameter			
Modell(s):	16kW (Heizung 3kW) ;16kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	Ja(für 16kW(Heizung 3kW))nein(für 16kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Kälter		
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	12	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	7.7	kW
T _j = + 2°C	P _{dh}	4.5	kW
T _j = +7°C	P _{dh}	3.2	kW
T _j = + 12°C	P _{dh}	3.6	kW
T _j = zweiwertige Temperatur	P _{dh}	9.6	kW
T _j = Betriebsgrenztemperatur	P _{dh}	5.1	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-15	°C
Zyklusintervallkapazität für Heizung	P _{cyh}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/68	dB
Jährlicher Energieverbrauch	Q _{HE}	9389	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Kontaktetails		Siehe Rückseite des Handbuchs	
Täglicher Kraftstoffverbrauch			
Jährlicher Kraftstoffverbrauch			
Art der Energiezufuhr			
Nennwärmeleistung (**)			
Zusatzheizung			
Betriebsgrenztemperatur Heizwasser			
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur			
Zyklus-Intervall-Effizienz			
Betriebsgrenztemperatur Heizwasser			
Nennwärmeleistung (**)			
Art der Energiezufuhr			
Elektrisch			
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.			

Technisch Parameter

Modell(s):	3-PH 12kW(Heizung 9kW);3-PH 12kW(Heizung 6kW); 3-PH 12kW(Heizung 3kW);3-PH 12kW						
Luft-Wasser-Wärmepumpe	Ja						
Wasser-Wasser-Wärmepumpe	nein						
Sole/Wasser Wärmepumpe	nein						
Niedertemperatur-Wärmepumpe	nein						
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 12kW (Heizung 9kW); 3-PH 12kW (Heizung 6kW); 3-PH 12kW(Heizung 3kW))nein(für 3-PH 12kW)						
Kombiheizgerät mit Wärmepumpe	nein						
Deklariertes Klimazustand;	Durchschnitt						
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	12	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	187	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	10.7	kW	$T_j = -7^\circ\text{C}$	COPd	2.90	-
$T_j = +2^\circ\text{C}$	P _{dh}	7.0	kW	$T_j = +2^\circ\text{C}$	COPd	4.53	-
$T_j = +7^\circ\text{C}$	P _{dh}	4.6	kW	$T_j = +7^\circ\text{C}$	COPd	6.65	-
$T_j = +12^\circ\text{C}$	P _{dh}	4.2	kW	$T_j = +12^\circ\text{C}$	COPd	8.92	-
$T_j =$ zweiwertige Temperatur	P _{dh}	10.7	kW	$T_j =$ zweiwertige Temperatur	COPd	2.90	-
$T_j =$ Betriebsgrenztemperatur	P _{dh}	11.4	kW	$T_j =$ Betriebsgrenztemperatur	COPd	2.63	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	P _{dh}	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	COPd	N/A	-
Zweiwertige Temperatur	T _{biv}	-7	°C	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-10	°C
Zyklusintervallkapazität für Heizung	P _{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP _{cyc}	N/A	-
Abbaukoeffizient (**)	C _{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P _{OFF}	0.014	kW	Nennwärmeleistung (**)	P _{sup}	0.6	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW	Art der Energiezufuhr Elektrisch			
Standby Modus	P _{SB}	0.014	kW				
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW				
Andere Dinge							
Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	5000	m ³ /h
Schalleistungspegel, innen/außen	L _{WA}	-/64	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m ³ /h
Jährlicher Energieverbrauch	Q _{HE}	5256	kWh				
Für Kombiheizgeräte mit Wärmepumpe:							
Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q _{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ
Kontakt details	Siehe Rückseite des Handbuchs						
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.							

Technisch Parameter

Modell(s):	3-PH 12kW(Heizung 9kW);3-PH 12kW(Heizung 6kW); 3-PH 12kW(Heizung 3kW);3-PH 12kW						
Luft-Wasser-Wärmepumpe	Ja						
Wasser-Wasser-Wärmepumpe	nein						
Sole/Wasser Wärmepumpe	nein						
Niedertemperatur-Wärmepumpe	nein						
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 12kW (Heizung 9kW); 3-PH 12kW (Heizung 6kW); 3-PH 12kW(Heizung 3kW))nein(für 3-PH 12kW)						
Kombiheizgerät mit Wärmepumpe	nein						
Deklariertes Klimazustand;	Wärmer						
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	11	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	253	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	N/A	kW	$T_j = -7^\circ\text{C}$	COPd	N/A	-
$T_j = +2^\circ\text{C}$	P _{dh}	11.1	kW	$T_j = +2^\circ\text{C}$	COPd	3.62	-
$T_j = +7^\circ\text{C}$	P _{dh}	7.2	kW	$T_j = +7^\circ\text{C}$	COPd	5.64	-
$T_j = +12^\circ\text{C}$	P _{dh}	4.7	kW	$T_j = +12^\circ\text{C}$	COPd	8.34	-
$T_j =$ zweiwertige Temperatur	P _{dh}	7.2	kW	$T_j =$ zweiwertige Temperatur	COPd	5.64	-
$T_j =$ Betriebsgrenztemperatur	P _{dh}	11.1	kW	$T_j =$ Betriebsgrenztemperatur	COPd	3.62	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	P _{dh}	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	COPd	N/A	-
Zweiwertige Temperatur	T _{biv}	7	°C	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	2	°C
Zyklusintervallkapazität für Heizung	P _{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP _{cyc}	N/A	-
Abbaukoeffizient (**)	C _{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P _{OFF}	0.014	kW	Nennwärmeleistung (**)	P _{sup}	0.6	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW	Art der Energiezufuhr Elektrisch			
Standby Modus	P _{SB}	0.014	kW				
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW				
Andere Dinge							
Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	5000	m ³ /h
Schalleistungspegel, innen/außen	L _{WA}	-/64	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m ³ /h
Jährlicher Energieverbrauch	Q _{HE}	2325	kWh				
Für Kombiheizgeräte mit Wärmepumpe:							
Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q _{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ
Kontakt details	Siehe Rückseite des Handbuchs						
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.							

Technisch Parameter

Technisch Parameter			
Modell(s):	3-PH 12kW(Heizung 9kW);3-PH 12kW(Heizung 6kW); 3-PH 12kW(Heizung 3kW);3-PH 12kW		
Luft-Wasser-Wärmepumpe	Ja		
Wasser-Wasser-Wärmepumpe	nein		
Sole/Wasser Wärmepumpe	nein		
Niedertemperatur-Wärmepumpe	nein		
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 12kW (Heizung 9kW); 3-PH 12kW (Heizung 6kW); 3-PH 12kW(Heizung 3kW))nein(für 3-PH 12kW)		
Kombiheizgerät mit Wärmepumpe	nein		
Deklariertes Klimazustand;	Kälter		
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.			
Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	11	kW
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	Bewertet	7.2	kW
T _j = + 2°C	P _{dh}	4.2	kW
T _j = +7°C	P _{dh}	3.2	kW
T _j = + 12°C	P _{dh}	3.6	kW
T _j = zweiwertige Temperatur	P _{dh}	9.3	kW
T _j = Betriebsgrenztemperatur	P _{dh}	7.1	kW
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A	kW
Zweiwertige Temperatur	T _{biv}	-15	°C
Zyklusintervallkapazität für Heizung	P _{cyc}	N/A	kW
Abbaukoeffizient (**)	C _{dh}	0.9	kW
Stromverbrauch in anderen Modi als dem aktiven Modus			
Aus-Modus	P _{OFF}	0.014	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW
Standby Modus	P _{SB}	0.014	kW
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW
Artikel	Symbol	Wert	Einheit
Saisonale Raumheizungs-Energieeffizienz	η _s	163	%
Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T _j			
T _j = - 7°C	COP _d	3.51	-
T _j = + 2°C	COP _d	5.06	-
T _j = +7°C	COP _d	6.20	-
T _j = + 12°C	COP _d	8.19	-
T _j = zweiwertige Temperatur	COP _d	2.59	-
T _j = Betriebsgrenztemperatur	COP _d	2.08	-
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	COP _d	N/A	-
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-22	°C
Zyklus-Intervall-Effizienz	COP _{cyc}	N/A	-
Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Zusatzheizung			
Nennwärmeleistung (**)	P _{sup}	3.9	kW
Art der Energiezufuhr		Elektrisch	
Andere Dinge			
Kapazitätskontrolle	Variable		Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen
Schalleistungspegel, innen/außen	L _{WA}	-/64	dB
Jährlicher Energieverbrauch	Q _{HE}	6736	kWh
Für Kombiheizgeräte mit Wärmepumpe:			
Deklariertes Lastprofil	N/A		Energieeffizienz der Warmwasserbereitung
Täglicher Stromverbrauch	Q _{elec}	N/A	η _{wh}
Jährlicher Stromverbrauch	AEC	N/A	N/A
Kontakt details		Siehe Rückseite des Handbuchs	
Täglicher Kraftstoffverbrauch			
Jährlicher Kraftstoffverbrauch		AFC	
(**) Wenn C _{dh} nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient C _{dh} = 0,9.			

Technisch Parameter

Modell(s):	3-PH 12kW(Heizung 9kW);3-PH 12kW(Heizung 6kW); 3-PH 12kW(Heizung 3kW);3-PH 12kW						
Luft-Wasser-Wärmepumpe	Ja						
Wasser-Wasser-Wärmepumpe	nein						
Sole/Wasser Wärmepumpe	nein						
Niedertemperatur-Wärmepumpe	nein						
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 12kW (Heizung 9kW); 3-PH 12kW (Heizung 6kW); 3-PH 12kW(Heizung 3kW))nein(für 3-PH 12kW)						
Kombiheizgerät mit Wärmepumpe	nein						
Deklariertes Klimazustand;	Durchschnitt						
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	12	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	138	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j	Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j						
$T_j = -7^\circ\text{C}$	Bewertet	10.7	kW	$T_j = -7^\circ\text{C}$	COPd	2.13	-
$T_j = +2^\circ\text{C}$	P _{dh}	6.6	kW	$T_j = +2^\circ\text{C}$	COPd	3.33	-
$T_j = +7^\circ\text{C}$	P _{dh}	4.4	kW	$T_j = +7^\circ\text{C}$	COPd	4.88	-
$T_j = +12^\circ\text{C}$	P _{dh}	4.0	kW	$T_j = +12^\circ\text{C}$	COPd	7.67	-
$T_j =$ zweiwertige Temperatur	P _{dh}	10.7	kW	$T_j =$ zweiwertige Temperatur	COPd	2.13	-
$T_j =$ Betriebsgrenztemperatur	P _{dh}	10.0	kW	$T_j =$ Betriebsgrenztemperatur	COPd	1.82	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	P _{dh}	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	COPd	N/A	-
Zweiwertige Temperatur	T _{biv}	-7	°C	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-10	°C
Zyklusintervallkapazität für Heizung	P _{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP _{cyc}	N/A	-
Abbaukoeffizient (**)	C _{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P _{OFF}	0.014	kW	Nennwärmeleistung (**)	P _{sup}	2.0	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW	Art der Energiezufuhr			
Standby Modus	P _{SB}	0.014	kW	Elektrisch			
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW				
Andere Dinge							
Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	5000	m ³ /h
Schalleistungspegel, innen/außen	L _{WA}	-/64	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m ³ /h
Jährlicher Energieverbrauch	Q _{HE}	7085	kWh				
Für Kombiheizgeräte mit Wärmepumpe:							
Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q _{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ
Kontaktفاصيل	Siehe Rückseite des Handbuchs						
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.							

Technisch Parameter

Modell(s):	3-PH 12kW(Heizung 9kW);3-PH 12kW(Heizung 6kW); 3-PH 12kW(Heizung 3kW);3-PH 12kW						
Luft-Wasser-Wärmepumpe	Ja						
Wasser-Wasser-Wärmepumpe	nein						
Sole/Wasser Wärmepumpe	nein						
Niedertemperatur-Wärmepumpe	nein						
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 12kW (Heizung 9kW); 3-PH 12kW (Heizung 6kW); 3-PH 12kW(Heizung 3kW))nein(für 3-PH 12kW)						
Kombiheizgerät mit Wärmepumpe	nein						
Deklariertes Klimazustand;	Wärmer						
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	12	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	175	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	N/A	kW	$T_j = -7^\circ\text{C}$	COPd	N/A	-
$T_j = +2^\circ\text{C}$	P_{dh}	12.1	kW	$T_j = +2^\circ\text{C}$	COPd	2.27	-
$T_j = +7^\circ\text{C}$	P_{dh}	8.0	kW	$T_j = +7^\circ\text{C}$	COPd	3.85	-
$T_j = +12^\circ\text{C}$	P_{dh}	4.3	kW	$T_j = +12^\circ\text{C}$	COPd	5.95	-
$T_j =$ zweiwertige Temperatur	P_{dh}	8.0	kW	$T_j =$ zweiwertige Temperatur	COPd	3.85	-
$T_j =$ Betriebsgrenztemperatur	P_{dh}	12.1	kW	$T_j =$ Betriebsgrenztemperatur	COPd	2.27	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	COPd	N/A	-
Zweiwertige Temperatur	T_{div}	7	$^\circ\text{C}$	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	2	$^\circ\text{C}$
Zyklusintervallkapazität für Heizung	P_{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP_{cyc}	N/A	-
Abbaukoeffizient (**)	C_{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	$^\circ\text{C}$
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P_{OFF}	0.014	kW	Nennwärmeleistung (**)	P_{sup}	0.0	kW
Thermostat-Aus-Modus	P_{TO}	0.024	kW	Art der Energiezufuhr Elektrisch			
Standby Modus	P_{SB}	0.014	kW				
Kurbelgehäuseheizungsmodus	P_{CK}	0.000	kW				
Andere Dinge							
Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	5000	m^3/h
Schalleistungspegel, innen/außen	L_{WA}	-/64	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m^3/h
Jährlicher Energieverbrauch	Q_{HE}	3733	kWh				
Für Kombiheizgeräte mit Wärmepumpe:							
Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q_{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q_{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ
Kontakt details	Siehe Rückseite des Handbuchs						
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen $P_{designh}$, und die Nennwärmeleistung eines Zusatzheizgeräts P_{sup} ist gleich der Zusatzleistung zum Heizen $sup(T_j)$. (**) Wenn C_{dh} nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient $C_{dh} = 0,9$.							

Technisch Parameter

Modell(s):	3-PH 12kW(Heizung 9kW);3-PH 12kW(Heizung 6kW); 3-PH 12kW(Heizung 3kW);3-PH 12kW						
Luft-Wasser-Wärmepumpe	Ja						
Wasser-Wasser-Wärmepumpe	nein						
Sole/Wasser Wärmepumpe	nein						
Niedertemperatur-Wärmepumpe	nein						
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 12kW (Heizung 9kW); 3-PH 12kW (Heizung 6kW); 3-PH 12kW(Heizung 3kW))nein(für 3-PH 12kW)						
Kombiheizgerät mit Wärmepumpe	nein						
Deklariertes Klimazustand;	Kälter						
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	10	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	119	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	6.7	kW	$T_j = -7^\circ\text{C}$	COPd	2.58	-
$T_j = +2^\circ\text{C}$	P_{dh}	4.0	kW	$T_j = +2^\circ\text{C}$	COPd	3.68	-
$T_j = +7^\circ\text{C}$	P_{dh}	2.9	kW	$T_j = +7^\circ\text{C}$	COPd	4.57	-
$T_j = +12^\circ\text{C}$	P_{dh}	3.3	kW	$T_j = +12^\circ\text{C}$	COPd	6.59	-
$T_j =$ zweiwertige Temperatur	P_{dh}	8.5	kW	$T_j =$ zweiwertige Temperatur	COPd	1.89	-
$T_j =$ Betriebsgrenztemperatur	P_{dh}	4.7	kW	$T_j =$ Betriebsgrenztemperatur	COPd	1.21	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	COPd	N/A	-
Zweiwertige Temperatur	T_{div}	-15	°C	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-22	°C
Zyklusintervallkapazität für Heizung	P_{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP_{cyc}	N/A	-
Abbaukoeffizient (**)	C_{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P_{OFF}	0.014	kW	Nennwärmeleistung (**)	P_{sup}	5.3	kW
Thermostat-Aus-Modus	P_{TO}	0.024	kW	Art der Energiezufuhr			
Standby Modus	P_{SB}	0.014	kW	Elektrisch			
Kurbelgehäuseheizungsmodus	P_{CK}	0.000	kW				
Andere Dinge							
Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	5000	m ³ /h
Schalleistungspegel, innen/außen	L_{WA}	-/64	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m ³ /h
Jährlicher Energieverbrauch	Q_{HE}	8459	kWh				
Für Kombiheizgeräte mit Wärmepumpe:							
Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q_{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q_{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ
Kontakt details	Siehe Rückseite des Handbuchs						
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen $P_{designh}$, und die Nennwärmeleistung eines Zusatzheizgeräts P_{sup} ist gleich der Zusatzleistung zum Heizen $sup(T_j)$. (**) Wenn C_{dh} nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient $C_{dh} = 0,9$.							

Technisch Parameter

Modell(s):	3-PH 14kW(Heizung 9kW);3-PH 14kW(Heizung 6kW); 3-PH 14kW(Heizung 3kW);3-PH 14kW						
Luft-Wasser-Wärmepumpe	Ja						
Wasser-Wasser-Wärmepumpe	nein						
Sole/Wasser Wärmepumpe	nein						
Niedertemperatur-Wärmepumpe	nein						
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 14kW (Heizung 9kW); 3-PH 14kW (Heizung 6kW); 3-PH 14kW(Heizung 3kW))nein(für 3-PH 14kW)						
Kombiheizgerät mit Wärmepumpe	nein						
Deklariertes Klimazustand;	Durchschnitt						
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	14	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	182	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	12.4	kW	$T_j = -7^\circ\text{C}$	COPd	2.80	-
$T_j = +2^\circ\text{C}$	P _{dh}	7.5	kW	$T_j = +2^\circ\text{C}$	COPd	4.40	-
$T_j = +7^\circ\text{C}$	P _{dh}	5.1	kW	$T_j = +7^\circ\text{C}$	COPd	6.38	-
$T_j = +12^\circ\text{C}$	P _{dh}	4.9	kW	$T_j = +12^\circ\text{C}$	COPd	9.16	-
$T_j =$ zweiwertige Temperatur	P _{dh}	12.4	kW	$T_j =$ zweiwertige Temperatur	COPd	2.80	-
$T_j =$ Betriebsgrenztemperatur	P _{dh}	12.9	kW	$T_j =$ Betriebsgrenztemperatur	COPd	2.63	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20 °C)	P _{dh}	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20 °C)	COPd	N/A	-
Zweiwertige Temperatur	T _{biv}	-7	°C	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-10	°C
Zyklusintervallkapazität für Heizung	P _{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP _{cyc}	N/A	-
Abbaukoeffizient (**)	C _{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P _{OFF}	0.014	kW	Nennwärmeleistung (**)	P _{sup}	1.1	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW	Art der Energiezufuhr Elektrisch			
Standby Modus	P _{SB}	0.014	kW				
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW				
Andere Dinge							
Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	5500	m ³ /h
Schalleistungspegel, innen/außen	L _{WA}	-/66	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m ³ /h
Jährlicher Energieverbrauch	Q _{HE}	6237	kWh				
Für Kombiheizgeräte mit Wärmepumpe:							
Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q _{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ
Kontakt details	Siehe Rückseite des Handbuchs						
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.							

Technisch Parameter

Modell(s):	3-PH 14kW(Heizung 9kW);3-PH 14kW(Heizung 6kW); 3-PH 14kW(Heizung 3kW);3-PH 14kW
Luft-Wasser-Wärmepumpe	Ja
Wasser-Wasser-Wärmepumpe	nien
Sole/Wasser Wärmepumpe	nein
Niedertemperatur-Wärmepumpe	nein
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 14kW (Heizung 9kW); 3-PH 14kW (Heizung 6kW); 3-PH 14kW(Heizung 3kW))nein(für 3-PH 14kW)
Kombiheizgerät mit Wärmepumpe	nein
Deklariertes Klimazustand;	Wärmer
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.	

Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	12	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	248	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	N/A	kW	$T_j = -7^\circ\text{C}$	COPd	N/A	-
$T_j = +2^\circ\text{C}$	P_{dh}	12.3	kW	$T_j = +2^\circ\text{C}$	COPd	3.41	-
$T_j = +7^\circ\text{C}$	P_{dh}	8.0	kW	$T_j = +7^\circ\text{C}$	COPd	5.61	-
$T_j = +12^\circ\text{C}$	P_{dh}	4.2	kW	$T_j = +12^\circ\text{C}$	COPd	7.94	-
$T_j =$ zweiwertige Temperatur	P_{dh}	8.0	kW	$T_j =$ zweiwertige Temperatur	COPd	5.61	-
$T_j =$ Betriebsgrenztemperatur	P_{dh}	12.3	kW	$T_j =$ Betriebsgrenztemperatur	COPd	3.41	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	COPd	N/A	-
Zweiwertige Temperatur	T_{div}	7	$^\circ\text{C}$	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	2	$^\circ\text{C}$
Zyklusintervallkapazität für Heizung	P_{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP_{cyc}	N/A	-
Abbaukoeffizient (**)	C_{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	$^\circ\text{C}$
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P_{OFF}	0.014	kW	Nennwärmeleistung (**)	P_{sup}	0.0	kW
Thermostat-Aus-Modus	P_{TO}	0.024	kW	Art der Energiezufuhr			
Standby Modus	P_{SB}	0.014	kW	Elektrisch			
Kurbelgehäuseheizungsmodus	P_{CK}	0.000	kW				

Andere Dinge

Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	5500	m^3/h
Schalleistungspegel, innen/außen	L_{WA}	-/66	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m^3/h
Jährlicher Energieverbrauch	Q_{HE}	2638	kWh				

Für Kombiheizgeräte mit Wärmepumpe:

Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q_{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q_{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ

Kontakt details Siehe Rückseite des Handbuchs

(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung $P_{designh}$ und die Nennwärmeleistung eines Zusatzheizgeräts P_{sup} ist gleich der Zusatzleistung zum Heizen $sup(T_j)$. (**) Wenn C_{dh} nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient $C_{dh} = 0,9$.

Technisch Parameter

Modell(s):	3-PH 14kW(Heizung 9kW);3-PH 14kW(Heizung 6kW); 3-PH 14kW(Heizung 3kW);3-PH 14kW
Luft-Wasser-Wärmepumpe	Ja
Wasser-Wasser-Wärmepumpe	nien
Sole/Wasser Wärmepumpe	nein
Niedertemperatur-Wärmepumpe	nein
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 14kW (Heizung 9kW); 3-PH 14kW (Heizung 6kW); 3-PH 14kW(Heizung 3kW))nein(für 3-PH 14kW)
Kombiheizgerät mit Wärmepumpe	nein
Deklariertes Klimazustand;	Kälter
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.	

Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	13	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	156	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	8.3	kW	$T_j = -7^\circ\text{C}$	COPd	3.36	-
$T_j = +2^\circ\text{C}$	P _{dh}	4.7	kW	$T_j = +2^\circ\text{C}$	COPd	4.73	-
$T_j = +7^\circ\text{C}$	P _{dh}	3.4	kW	$T_j = +7^\circ\text{C}$	COPd	6.11	-
$T_j = +12^\circ\text{C}$	P _{dh}	3.8	kW	$T_j = +12^\circ\text{C}$	COPd	7.98	-
$T_j =$ zweiwertige Temperatur	P _{dh}	10.7	kW	$T_j =$ zweiwertige Temperatur	COPd	2.61	-
$T_j =$ Betriebsgrenztemperatur	P _{dh}	7.9	kW	$T_j =$ Betriebsgrenztemperatur	COPd	2.10	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20 °C)	P _{dh}	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20 °C)	COPd	N/A	-
Zweiwertige Temperatur	T _{biv}	-15	°C	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-22	°C
Zyklusintervallkapazität für Heizung	P _{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP _{cyc}	N/A	-
Abbaukoeffizient (**)	C _{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P _{OFF}	0.014	kW	Nennwärmeleistung (**)	P _{sup}	5.1	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW	Art der Energiezufuhr			
Standby Modus	P _{SB}	0.014	kW	Elektrisch			
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW				

Andere Dinge

Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	5500	m ³ /h
Schalleistungspegel, innen/außen	L _{WA}	-/66	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m ³ /h
Jährlicher Energieverbrauch	Q _{HE}	8082	kWh				

Für Kombiheizgeräte mit Wärmepumpe:

Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q _{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ

Kontakt details Siehe Rückseite des Handbuchs

(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.

Technisch Parameter

Modell(s):	3-PH 14kW(Heizung 9kW);3-PH 14kW(Heizung 6kW); 3-PH 14kW(Heizung 3kW);3-PH 14kW						
Luft-Wasser-Wärmepumpe	Ja						
Wasser-Wasser-Wärmepumpe	nein						
Sole/Wasser Wärmepumpe	nein						
Niedertemperatur-Wärmepumpe	nein						
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 14kW (Heizung 9kW); 3-PH 14kW (Heizung 6kW); 3-PH 14kW(Heizung 3kW))nein(für 3-PH 14kW)						
Kombiheizgerät mit Wärmepumpe	nein						
Deklariertes Klimazustand;	Durchschnitt						
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	12	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	135	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	10.9	kW	$T_j = -7^\circ\text{C}$	COPd	2.03	-
$T_j = +2^\circ\text{C}$	P _{dh}	7.1	kW	$T_j = +2^\circ\text{C}$	COPd	3.35	-
$T_j = +7^\circ\text{C}$	P _{dh}	4.8	kW	$T_j = +7^\circ\text{C}$	COPd	4.67	-
$T_j = +12^\circ\text{C}$	P _{dh}	4.0	kW	$T_j = +12^\circ\text{C}$	COPd	7.27	-
$T_j =$ zweiwertige Temperatur	P _{dh}	10.9	kW	$T_j =$ zweiwertige Temperatur	COPd	2.03	-
$T_j =$ Betriebsgrenztemperatur	P _{dh}	10.0	kW	$T_j =$ Betriebsgrenztemperatur	COPd	1.79	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	P _{dh}	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	COPd	N/A	-
Zweiwertige Temperatur	T _{biv}	-7	°C	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-10	°C
Zyklusintervallkapazität für Heizung	P _{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP _{cyc}	N/A	-
Abbaukoeffizient (**)	C _{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P _{OFF}	0.014	kW	Nennwärmeleistung (**)	P _{sup}	2.0	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW	Art der Energiezufuhr Elektrisch			
Standby Modus	P _{SB}	0.014	kW				
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW				
Andere Dinge							
Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	5500	m ³ /h
Schalleistungspegel, innen/außen	L _{WA}	-/66	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m ³ /h
Jährlicher Energieverbrauch	Q _{HE}	7384	kWh				
Für Kombiheizgeräte mit Wärmepumpe:							
Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q _{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ
Kontakt details	Siehe Rückseite des Handbuchs						
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.							

Technisch Parameter

Modell(s):	3-PH 14kW(Heizung 9kW);3-PH 14kW(Heizung 6kW); 3-PH 14kW(Heizung 3kW);3-PH 14kW
Luft-Wasser-Wärmepumpe	Ja
Wasser-Wasser-Wärmepumpe	nien
Sole/Wasser Wärmepumpe	nein
Niedertemperatur-Wärmepumpe	nein
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 14kW (Heizung 9kW); 3-PH 14kW (Heizung 6kW); 3-PH 14kW(Heizung 3kW))nein(für 3-PH 14kW)
Kombiheizgerät mit Wärmepumpe	nein
Deklariertes Klimazustand;	Wärmer
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.	

Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	14	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	170	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	N/A	kW	$T_j = -7^\circ\text{C}$	COPd	N/A	-
$T_j = +2^\circ\text{C}$	P_{dh}	13.1	kW	$T_j = +2^\circ\text{C}$	COPd	2.25	-
$T_j = +7^\circ\text{C}$	P_{dh}	9.0	kW	$T_j = +7^\circ\text{C}$	COPd	3.61	-
$T_j = +12^\circ\text{C}$	P_{dh}	4.1	kW	$T_j = +12^\circ\text{C}$	COPd	5.94	-
$T_j =$ zweiwertige Temperatur	P_{dh}	9.0	kW	$T_j =$ zweiwertige Temperatur	COPd	3.61	-
$T_j =$ Betriebsgrenztemperatur	P_{dh}	13.1	kW	$T_j =$ Betriebsgrenztemperatur	COPd	2.25	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	COPd	N/A	-
Zweiwertige Temperatur	T_{div}	7	°C	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	2	°C
Zyklusintervallkapazität für Heizung	P_{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP_{cyc}	N/A	-
Abbaukoeffizient (**)	C_{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P_{OFF}	0.014	kW	Nennwärmeleistung (**)	P_{sup}	0.9	kW
Thermostat-Aus-Modus	P_{TO}	0.024	kW	Art der Energiezufuhr Elektrisch			
Standby Modus	P_{SB}	0.014	kW				
Kurbelgehäuseheizungsmodus	P_{CK}	0.000	kW				

Andere Dinge

Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	5500	m ³ /h
Schalleistungspegel, innen/außen	L_{WA}	-/66	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m ³ /h
Jährlicher Energieverbrauch	Q_{HE}	4320	kWh				

Für Kombiheizgeräte mit Wärmepumpe:

Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q_{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q_{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ

Kontakt details Siehe Rückseite des Handbuchs

(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung $P_{designh}$ und die Nennwärmeleistung eines Zusatzheizgeräts P_{sup} ist gleich der Zusatzleistung zum Heizen $sup(T_j)$. (**) Wenn C_{dh} nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient $C_{dh} = 0,9$.

Technisch Parameter

Modell(s):	3-PH 14kW(Heizung 9kW);3-PH 14kW(Heizung 6kW); 3-PH 14kW(Heizung 3kW);3-PH 14kW				
Luft-Wasser-Wärmepumpe	Ja				
Wasser-Wasser-Wärmepumpe	nein				
Sole/Wasser Wärmepumpe	nein				
Niedertemperatur-Wärmepumpe	nein				
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 14kW (Heizung 9kW); 3-PH 14kW (Heizung 6kW); 3-PH 14kW(Heizung 3kW))nein(für 3-PH 14kW)				
Kombiheizgerät mit Wärmepumpe	nein				
Deklariertes Klimazustand;	Kälter				
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.					
	Artikel	Symbol	Wert	Einheit	
Nennwärmeleistung (*)	Bewertet	11		kW	
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T _j					
T _j = - 7°C	Bewertet	7.2		kW	
T _j = + 2°C	P _{dh}	4.3		kW	
T _j = +7°C	P _{dh}	3.1		kW	
T _j = + 12°C	P _{dh}	3.6		kW	
T _j = zweiwertige Temperatur	P _{dh}	8.9		kW	
T _j = Betriebsgrenztemperatur	P _{dh}	4.4		kW	
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	P _{dh}	N/A		kW	
Zweiwertige Temperatur	T _{biv}	-15		°C	
Zyklusintervallkapazität für Heizung	P _{cyc}	N/A		kW	
Abbaukoeffizient (**)	C _{dh}	0.9		kW	
Stromverbrauch in anderen Modi als dem aktiven Modus					
Aus-Modus	P _{OFF}	0.014		kW	
Thermostat-Aus-Modus	P _{TO}	0.024		kW	
Standby Modus	P _{SB}	0.014		kW	
Kurbelgehäuseheizungsmodus	P _{CK}	0.000		kW	
	Artikel	Symbol	Wert	Einheit	
Saisonale Raumheizungs-Energieeffizienz	η _s	117		%	
Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T _j					
T _j = - 7°C	COP _d	2.56		-	
T _j = + 2°C	COP _d	3.62		-	
T _j = +7°C	COP _d	4.77		-	
T _j = + 12°C	COP _d	6.40		-	
T _j = zweiwertige Temperatur	COP _d	1.82		-	
T _j = Betriebsgrenztemperatur	COP _d	1.16		-	
Für Luft/Wasser-Wärmepumpen: T _j = - 15 °C (wenn TOL < - 20 °C)	COP _d	N/A		-	
Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-22		°C	
Zyklus-Intervall-Effizienz	COP _{cyc}	N/A		-	
Betriebsgrenztemperatur Heizwasser	WTOL	65		°C	
Zusatzheizung					
Nennwärmeleistung (**)	P _{sup}	6.6		kW	
Art der Energiezufuhr					
Elektrisch					
Andere Dinge					
Kapazitätskontrolle	Variable				
Schalleistungspegel, innen/außen	L _{WA}	-/66		dB	
Jährlicher Energieverbrauch	Q _{HE}	8967		kWh	
Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen					
Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher					
Für Kombiheizgeräte mit Wärmepumpe:					
Deklariertes Lastprofil	N/A				
Energieeffizienz der Warmwasserbereitung	η _{wh}	N/A		%	
Täglicher Stromverbrauch	Q _{elec}	N/A		kWh	
Jährlicher Stromverbrauch	AEC	N/A		kWh	
Täglicher Kraftstoffverbrauch	Q _{fuel}	N/A		kWh	
Jährlicher Kraftstoffverbrauch	AFC	N/A		GJ	
Kontakt details	Siehe Rückseite des Handbuchs				
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.					

Technisch Parameter

Modell(s):	3-PH 16kW(Heizung 9kW);3-PH 16kW(Heizung 6kW); 3-PH 16kW(Heizung 3kW);3-PH 16kW						
Luft-Wasser-Wärmepumpe	Ja						
Wasser-Wasser-Wärmepumpe	nein						
Sole/Wasser Wärmepumpe	nein						
Niedertemperatur-Wärmepumpe	nein						
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 16kW (Heizung 9kW); 3-PH 16kW (Heizung 6kW); 3-PH 16kW(Heizung 3kW))nein(für 3-PH 16kW)						
Kombiheizgerät mit Wärmepumpe	nein						
Deklariertes Klimazustand;	Durchschnitt						
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	15	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	179	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	13.4	kW	$T_j = -7^\circ\text{C}$	COPd	2.60	-
$T_j = +2^\circ\text{C}$	P _{dh}	8.0	kW	$T_j = +2^\circ\text{C}$	COPd	4.39	-
$T_j = +7^\circ\text{C}$	P _{dh}	5.4	kW	$T_j = +7^\circ\text{C}$	COPd	6.44	-
$T_j = +12^\circ\text{C}$	P _{dh}	4.6	kW	$T_j = +12^\circ\text{C}$	COPd	8.92	-
$T_j =$ zweiwertige Temperatur	P _{dh}	13.4	kW	$T_j =$ zweiwertige Temperatur	COPd	2.60	-
$T_j =$ Betriebsgrenztemperatur	P _{dh}	13.4	kW	$T_j =$ Betriebsgrenztemperatur	COPd	2.44	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	P _{dh}	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	COPd	N/A	-
Zweiwertige Temperatur	T _{biv}	-7	°C	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-10	°C
Zyklusintervallkapazität für Heizung	P _{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP _{cyc}	N/A	-
Abbaukoeffizient (**)	C _{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P _{OFF}	0.014	kW	Nennwärmeleistung (**)	P _{sup}	1.6	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW	Art der Energiezufuhr Elektrisch			
Standby Modus	P _{SB}	0.014	kW				
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW				
Andere Dinge							
Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	6000	m ³ /h
Schalleistungspegel, innen/außen	L _{WA}	-/68	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m ³ /h
Jährlicher Energieverbrauch	Q _{HE}	6838	kWh				
Für Kombiheizgeräte mit Wärmepumpe:							
Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q _{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ
Kontakt details	Siehe Rückseite des Handbuchs						
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.							

Technisch Parameter

Modell(s):	3-PH 16kW(Heizung 9kW);3-PH 16kW(Heizung 6kW); 3-PH 16kW(Heizung 3kW);3-PH 16kW						
Luft-Wasser-Wärmepumpe	Ja						
Wasser-Wasser-Wärmepumpe	nein						
Sole/Wasser Wärmepumpe	nein						
Niedertemperatur-Wärmepumpe	nein						
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 16kW (Heizung 9kW); 3-PH 16kW (Heizung 6kW); 3-PH 16kW(Heizung 3kW))nein(für 3-PH 16kW)						
Kombiheizgerät mit Wärmepumpe	nein						
Deklariertes Klimazustand;	Wärmer						
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	13	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	239	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	N/A	kW	$T_j = -7^\circ\text{C}$	COPd	N/A	-
$T_j = +2^\circ\text{C}$	P _{dh}	13.3	kW	$T_j = +2^\circ\text{C}$	COPd	3.33	-
$T_j = +7^\circ\text{C}$	P _{dh}	8.6	kW	$T_j = +7^\circ\text{C}$	COPd	5.20	-
$T_j = +12^\circ\text{C}$	P _{dh}	4.8	kW	$T_j = +12^\circ\text{C}$	COPd	7.95	-
$T_j =$ zweiwertige Temperatur	P _{dh}	8.6	kW	$T_j =$ zweiwertige Temperatur	COPd	5.20	-
$T_j =$ Betriebsgrenztemperatur	P _{dh}	13.3	kW	$T_j =$ Betriebsgrenztemperatur	COPd	3.33	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	P _{dh}	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	COPd	N/A	-
Zweiwertige Temperatur	T _{biv}	7	°C	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	2	°C
Zyklusintervallkapazität für Heizung	P _{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP _{cyc}	N/A	-
Abbaukoeffizient (**)	C _{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P _{OFF}	0.014	kW	Nennwärmeleistung (**)	P _{sup}	0.0	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW	Art der Energiezufuhr			
Standby Modus	P _{SB}	0.014	kW	Elektrisch			
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW				
Andere Dinge							
Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	6000	m ³ /h
Schalleistungspegel, innen/außen	L _{WA}	-/68	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m ³ /h
Jährlicher Energieverbrauch	Q _{HE}	2933	kWh				
Für Kombiheizgeräte mit Wärmepumpe:							
Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q _{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ
Kontakt details	Siehe Rückseite des Handbuchs						
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.							

Technisch Parameter

Modell(s):	3-PH 16kW(Heizung 9kW);3-PH 16kW(Heizung 6kW); 3-PH 16kW(Heizung 3kW);3-PH 16kW
Luft-Wasser-Wärmepumpe	Ja
Wasser-Wasser-Wärmepumpe	nien
Sole/Wasser Wärmepumpe	nein
Niedertemperatur-Wärmepumpe	nein
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 16kW (Heizung 9kW); 3-PH 16kW (Heizung 6kW); 3-PH 16kW(Heizung 3kW))nein(für 3-PH 16kW)
Kombiheizgerät mit Wärmepumpe	nein
Deklariertes Klimazustand;	kälter
Parameter sind für Anwendungen bei niedrigen Temperaturen deklariert.	

Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	14	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	156	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	9.1	kW	$T_j = -7^\circ\text{C}$	COPd	3.32	-
$T_j = +2^\circ\text{C}$	P _{dh}	5.0	kW	$T_j = +2^\circ\text{C}$	COPd	4.88	-
$T_j = +7^\circ\text{C}$	P _{dh}	4.2	kW	$T_j = +7^\circ\text{C}$	COPd	6.50	-
$T_j = +12^\circ\text{C}$	P _{dh}	3.7	kW	$T_j = +12^\circ\text{C}$	COPd	7.59	-
$T_j =$ zweiwertige Temperatur	P _{dh}	11.3	kW	$T_j =$ zweiwertige Temperatur	COPd	2.28	-
$T_j =$ Betriebsgrenztemperatur	P _{dh}	9.8	kW	$T_j =$ Betriebsgrenztemperatur	COPd	1.89	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	P _{dh}	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	COPd	N/A	-
Zweiwertige Temperatur	T _{biv}	-15	°C	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-22	°C
Zyklusintervallkapazität für Heizung	P _{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP _{cyc}	N/A	-
Abbaukoeffizient (**)	C _{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P _{OFF}	0.014	kW	Nennwärmeleistung (**)	P _{sup}	4.2	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW	Art der Energiezufuhr			
Standby Modus	P _{SB}	0.014	kW	Elektrisch			
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW				

Andere Dinge

Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	6000	m ³ /h
Schalleistungspegel, innen/außen	L _{WA}	-/68	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m ³ /h
Jährlicher Energieverbrauch	Q _{HE}	8597	kWh				

Für Kombiheizgeräte mit Wärmepumpe:

Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q _{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ

Kontakt details Siehe Rückseite des Handbuchs

(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen P_{designh}, und die Nennwärmeleistung eines Zusatzheizgeräts P_{sup} ist gleich der Zusatzleistung zum Heizen sup(T_j). (**) Wenn C_{dh} nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient C_{dh} = 0,9.

Technisch Parameter

Modell(s):	3-PH 16kW(Heizung 9kW);3-PH 16kW(Heizung 6kW); 3-PH 16kW(Heizung 3kW);3-PH 16kW						
Luft-Wasser-Wärmepumpe	Ja						
Wasser-Wasser-Wärmepumpe	nein						
Sole/Wasser Wärmepumpe	nein						
Niedertemperatur-Wärmepumpe	nein						
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 16kW (Heizung 9kW); 3-PH 16kW (Heizung 6kW); 3-PH 16kW(Heizung 3kW))nein(für 3-PH 16kW)						
Kombiheizgerät mit Wärmepumpe	nein						
Deklariertes Klimazustand;	Durchschnitt						
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	13	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	136	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	11.3	kW	$T_j = -7^\circ\text{C}$	COPd	2.04	-
$T_j = +2^\circ\text{C}$	P _{dh}	7.3	kW	$T_j = +2^\circ\text{C}$	COPd	3.33	-
$T_j = +7^\circ\text{C}$	P _{dh}	4.8	kW	$T_j = +7^\circ\text{C}$	COPd	4.81	-
$T_j = +12^\circ\text{C}$	P _{dh}	4.0	kW	$T_j = +12^\circ\text{C}$	COPd	7.36	-
$T_j =$ zweiwertige Temperatur	P _{dh}	11.3	kW	$T_j =$ zweiwertige Temperatur	COPd	2.04	-
$T_j =$ Betriebsgrenztemperatur	P _{dh}	11.3	kW	$T_j =$ Betriebsgrenztemperatur	COPd	1.78	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	P _{dh}	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	COPd	N/A	-
Zweiwertige Temperatur	T _{biv}	-7	°C	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-10	°C
Zyklusintervallkapazität für Heizung	P _{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP _{cyc}	N/A	-
Abbaukoeffizient (**)	C _{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P _{OFF}	0.014	kW	Nennwärmeleistung (**)	P _{sup}	1.7	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW	Art der Energiezufuhr			
Standby Modus	P _{SB}	0.014	kW	Elektrisch			
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW				
Andere Dinge							
Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	6000	m ³ /h
Schalleistungspegel, innen/außen	L _{WA}	-/68	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m ³ /h
Jährlicher Energieverbrauch	Q _{HE}	7571	kWh				
Für Kombiheizgeräte mit Wärmepumpe:							
Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q _{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ
Kontakt details	Siehe Rückseite des Handbuchs						
(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen Pdesignh, und die Nennwärmeleistung eines Zusatzheizgeräts Psup ist gleich der Zusatzleistung zum Heizen sup(Tj). (**) Wenn Cdh nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient Cdh = 0,9.							

Technisch Parameter

Modell(s):	3-PH 16kW(Heizung 9kW);3-PH 16kW(Heizung 6kW); 3-PH 16kW(Heizung 3kW);3-PH 16kW
Luft-Wasser-Wärmepumpe	Ja
Wasser-Wasser-Wärmepumpe	nien
Sole/Wasser Wärmepumpe	nein
Niedertemperatur-Wärmepumpe	nein
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 16kW (Heizung 9kW); 3-PH 16kW (Heizung 6kW); 3-PH 16kW(Heizung 3kW))nein(für 3-PH 16kW)
Kombiheizgerät mit Wärmepumpe	nein
Deklariertes Klimazustand;	Wärmer
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.	

Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	14	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	171	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	N/A	kW	$T_j = -7^\circ\text{C}$	COPd	N/A	-
$T_j = +2^\circ\text{C}$	P_{dh}	13.2	kW	$T_j = +2^\circ\text{C}$	COPd	2.32	-
$T_j = +7^\circ\text{C}$	P_{dh}	9.1	kW	$T_j = +7^\circ\text{C}$	COPd	3.70	-
$T_j = +12^\circ\text{C}$	P_{dh}	4.1	kW	$T_j = +12^\circ\text{C}$	COPd	5.80	-
$T_j =$ zweiwertige Temperatur	P_{dh}	9.1	kW	$T_j =$ zweiwertige Temperatur	COPd	3.70	-
$T_j =$ Betriebsgrenztemperatur	P_{dh}	13.2	kW	$T_j =$ Betriebsgrenztemperatur	COPd	2.32	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn $TOL < -20^\circ\text{C}$)	COPd	N/A	-
Zweiwertige Temperatur	T_{div}	7	$^\circ\text{C}$	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	2	$^\circ\text{C}$
Zyklusintervallkapazität für Heizung	P_{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP_{cyc}	N/A	-
Abbaukoeffizient (**)	C_{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	$^\circ\text{C}$
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P_{OFF}	0.014	kW	Nennwärmeleistung (**)	P_{sup}	0.8	kW
Thermostat-Aus-Modus	P_{TO}	0.024	kW	Art der Energiezufuhr Elektrisch			
Standby Modus	P_{SB}	0.014	kW				
Kurbelgehäuseheizungsmodus	P_{CK}	0.000	kW				

Andere Dinge

Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	6000	m^3/h
Schalleistungspegel, innen/außen	L_{WA}	-/68	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m^3/h
Jährlicher Energieverbrauch	Q_{HE}	4321	kWh				

Für Kombiheizgeräte mit Wärmepumpe:

Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q_{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q_{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ

Kontakt details Siehe Rückseite des Handbuchs

(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung $P_{designh}$ und die Nennwärmeleistung eines Zusatzheizgeräts P_{sup} ist gleich der Zusatzleistung zum Heizen $sup(T_j)$. (**) Wenn C_{dh} nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient $C_{dh} = 0,9$.

Technisch Parameter

Modell(s):	3-PH 16kW(Heizung 9kW);3-PH 16kW(Heizung 6kW); 3-PH 16kW(Heizung 3kW);3-PH 16kW
Luft-Wasser-Wärmepumpe	Ja
Wasser-Wasser-Wärmepumpe	nien
Sole/Wasser Wärmepumpe	nein
Niedertemperatur-Wärmepumpe	nein
Ausgestattet mit einer Zusatzheizung	ja(für 3-PH 16kW (Heizung 9kW); 3-PH 16kW (Heizung 6kW); 3-PH 16kW(Heizung 3kW))nein(für 3-PH 16kW)
Kombiheizgerät mit Wärmepumpe	nein
Deklariertes Klimazustand;	kälter
Parameter werden für die Anwendung bei mittlerer Temperatur deklariert.	

Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Bewertet	12	kW	Saisonale Raumheizungs-Energieeffizienz	η_s	121	%
Angegebene Heizleistung bei Teillast bei Innentemperatur 20 °C und Außentemperatur T_j				Angegebene Heizleistung für Teillast bei Innentemperatur 20 °C und Außentemperatur T_j			
$T_j = -7^\circ\text{C}$	Bewertet	7.8	kW	$T_j = -7^\circ\text{C}$	COPd	2.64	-
$T_j = +2^\circ\text{C}$	P _{dh}	4.5	kW	$T_j = +2^\circ\text{C}$	COPd	3.78	-
$T_j = +7^\circ\text{C}$	P _{dh}	3.2	kW	$T_j = +7^\circ\text{C}$	COPd	4.87	-
$T_j = +12^\circ\text{C}$	P _{dh}	3.7	kW	$T_j = +12^\circ\text{C}$	COPd	6.40	-
$T_j =$ zweiwertige Temperatur	P _{dh}	9.6	kW	$T_j =$ zweiwertige Temperatur	COPd	1.85	-
$T_j =$ Betriebsgrenztemperatur	P _{dh}	5.1	kW	$T_j =$ Betriebsgrenztemperatur	COPd	1.04	-
Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	P _{dh}	N/A	kW	Für Luft/Wasser-Wärmepumpen: $T_j = -15^\circ\text{C}$ (wenn TOL < -20°C)	COPd	N/A	-
Zweiwertige Temperatur	T _{biv}	-15	°C	Für Luft/Wasser-Wärmepumpen: Betriebsgrenztemperatur	TOL	-22	°C
Zyklusintervallkapazität für Heizung	P _{cyc}	N/A	kW	Zyklus-Intervall-Effizienz	COP _{cyc}	N/A	-
Abbaukoeffizient (**)	C _{dh}	0.9	kW	Betriebsgrenztemperatur Heizwasser	WTOL	65	°C
Stromverbrauch in anderen Modi als dem aktiven Modus				Zusatzheizung			
Aus-Modus	P _{OFF}	0.014	kW	Nennwärmeleistung (**)	P _{sup}	6.9	kW
Thermostat-Aus-Modus	P _{TO}	0.024	kW	Art der Energiezufuhr			
Standby Modus	P _{SB}	0.014	kW	Elektrisch			
Kurbelgehäuseheizungsmodus	P _{CK}	0.000	kW				

Andere Dinge

Kapazitätskontrolle	Variable			Bei Luft/Wasser-Wärmepumpen: Nennluftvolumenstrom, außen	-	6000	m ³ /h
Schalleistungspegel, innen/außen	L _{WA}	-/68	dB	Für Wasser- oder Sole/Wasser-Wärmepumpen: Sole- oder Wasser- Nennvolumenstrom Außenwärmetauscher	-	N/A	m ³ /h
Jährlicher Energieverbrauch	Q _{HE}	9356	kWh				

Für Kombiheizgeräte mit Wärmepumpe:

Deklariertes Lastprofil	N/A			Energieeffizienz der Warmwasserbereitung	η_{wh}	N/A	%
Täglicher Stromverbrauch	Q _{elec}	N/A	kWh	Täglicher Kraftstoffverbrauch	Q _{fuel}	N/A	kWh
Jährlicher Stromverbrauch	AEC	N/A	kWh	Jährlicher Kraftstoffverbrauch	AFC	N/A	GJ

Kontakt details Siehe Rückseite des Handbuchs

(*) Bei Raumheizgeräten mit Wärmepumpe und Kombiheizgeräten mit Wärmepumpe ist die Nennwärmeleistung Prated gleich der Auslegungslast zum Heizen P_{designh}, und die Nennwärmeleistung eines Zusatzheizgeräts P_{sup} ist gleich der Zusatzleistung zum Heizen sup(T_j). (**) Wenn C_{dh} nicht durch Messung bestimmt wird, ist der Standard-Degradationskoeffizient C_{dh} = 0,9.

Informationspflichten für Komfortkühler

Modell(s):				4 kW (Heizung 3 kW) ;4 kW			
Außenseitiger Wärmetauscher des Chillers				Luft zu Wasser			
Innenseitiger Wärmetauscher-Kühler				Wasser			
Typ:				Kompressorbetriebene Dampfkompensation			
Treiber für Kompressor				Elektromotor			
Artikel							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Prated .c	4.6	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	216	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = + 35 \text{ °C}$	P_{dc}	4.6	kW	$T_j = +35 \text{ °C}$	EERd	3.38	-
$T_j = + 30 \text{ °C}$	P_{dc}	3.5	kW	$T_j = + 30 \text{ °C}$	EERd	4.60	-
$T_j = + 25 \text{ °C}$	P_{dc}	2.2	kW	$T_j = + 25 \text{ °C}$	EERd	6.23	-
$T_j = + 20 \text{ °C}$	P_{dc}	1.0	kW	$T_j = + 20 \text{ °C}$	EERd	7.69	-
Verschlechterungskoeffizient des Kühlers (*)	C_{dc}	0.9	kW				
Stromverbrauch in anderen Modi als „aktiver Modus “							
Aus-Modus	P_{OFF}	0,010	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0,000	KW
Thermostat-Aus-Modus	P_{TO}	0,010	kW	Standby Modus	P_{SB}	0,010	KW
Andere Dinge							
Kapazitätskontrolle	Variable			Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	2600	m ³ /h
Schalleistungspegel, innen/außen	LWA	-/56	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenndurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei niedrigen Temperaturen						
Kontaktdetails	Siehe Rückseite des Handbuchs						
(**) Wenn Cdh nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):				4KW (Heizung 3 kW) ;4KW			
Außenseitiger Wärmetauscher des Chillers				Luft zu Wasser			
Innenseitiger Wärmetauscher-Kühler				Wasser			
Typ:				Kompressorbetriebene Dampfkompensation			
Treiber für Kompressor				Elektromotor			
Artikel							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Prated .c	4.5	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	305	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = +35\text{ °C}$	P_{dc}	4.5	kW	$T_j = +35\text{ °C}$	EERd	5.64	-
$T_j = +30\text{ °C}$	P_{dc}	3.4	kW	$T_j = +30\text{ °C}$	EERd	7.47	-
$T_j = +25\text{ °C}$	P_{dc}	2.3	kW	$T_j = +25\text{ °C}$	EERd	8.97	-
$T_j = +20\text{ °C}$	P_{dc}	1.0	kW	$T_j = +20\text{ °C}$	EERd	8.81	-
Verschlechterungskoeffizient des Kühlers (*)	C_{dc}	0.9	kW				
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0,010	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0,000	KW
Thermostat-Aus-Modus	P_{TO}	0,010	kW	Standby Modus	P_{SB}	0,010	KW
Andere Dinge							
Kapazitätskontrolle	Variable			Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	2600	m ³ /h
Schalleistungspegel, innen/außen	LWA	-/56	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenndurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei mittlerer Temperatur						
Kontaktdetails	Siehe Rückseite des Handbuchs						
(**) Wenn Cdh nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):				6KW (Heizung 3 kW) ;6KW			
Außenseitiger Wärmetauscher des Chillers				Luft zu Wasser			
Innenseitiger Wärmetauscher-Kühler				Wasser			
Typ:				Kompressorbetriebene Dampfkompensation			
Treiber für Kompressor				Elektromotor			
Artikel							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Prated .c	6.1	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	207	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = +35\text{ °C}$	P_{dc}	6.1	kW	$T_j = +35\text{ °C}$	EERd	3.22	-
$T_j = +30\text{ °C}$	P_{dc}	4.7	kW	$T_j = +30\text{ °C}$	EERd	4.68	-
$T_j = +25\text{ °C}$	P_{dc}	2.8	kW	$T_j = +25\text{ °C}$	EERd	6.25	-
$T_j = +20\text{ °C}$	P_{dc}	1.2	kW	$T_j = +20\text{ °C}$	EERd	6.07	-
Verschlechterungskoeffizient des Kühlers (*)	C_{dc}	0.9	kW				
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0,010	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0,000	KW
Thermostat-Aus-Modus	P_{TO}	0,010	kW	Standby Modus	P_{SB}	0,010	KW
Andere Dinge							
Kapazitätskontrolle	Variable			Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	2800	m ³ /h
Schalleistungspegel, innen/außen	LWA	-/59	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenddurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei niedrigen Temperaturen						
Kontaktdetails	Siehe Rückseite des Handbuchs						
(**) Wenn Cdh nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):				6KW (Heizung 3 kW) ;6KW			
Außenseitiger Wärmetauscher des Chillers				Luft zu Wasser			
Innenseitiger Wärmetauscher-Kühler				Wasser			
Typ:				Kompressorbetriebene Dampfkompensation			
Treiber für Kompressor				Elektromotor			
Artikel							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Prated .c	6.1	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	319	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = +35\text{ °C}$	P_{dc}	6.1	kW	$T_j = +35\text{ °C}$	EERd	5.19	-
$T_j = +30\text{ °C}$	P_{dc}	4.4	kW	$T_j = +30\text{ °C}$	EERd	7.22	-
$T_j = +25\text{ °C}$	P_{dc}	2.9	kW	$T_j = +25\text{ °C}$	EERd	10.09	-
$T_j = +20\text{ °C}$	P_{dc}	1.3	kW	$T_j = +20\text{ °C}$	EERd	8.82	-
Verschlechterungskoeffizient des Kühlers (*)	C_{dc}	0.9	kW				
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0,010	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0,000	KW
Thermostat-Aus-Modus	P_{TO}	0,010	kW	Standby Modus	P_{SB}	0,010	KW
Andere Dinge							
Kapazitätskontrolle	Variable			Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	2800	m ³ /h
Schalleistungspegel, innen/außen	LWA	-/59	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenddurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei mittlerer Temperatur						
Kontaktdetails	Siehe Rückseite des Handbuchs						
(**) Wenn Cdh nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):				8KW (Heizung 3 kW) ;8KW			
Außenseitiger Wärmetauscher des Chillers				Luft zu Wasser			
Innenseitiger Wärmetauscher-Kühler				Wasser			
Typ:				Kompressorbetriebene Dampfkompensation			
Treiber für Kompressor				Elektromotor			
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Prated .c	7	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	214	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = +35\text{ °C}$	P_{dc}	7.0	kW	$T_j = +35\text{ °C}$	EERd	3.38	-
$T_j = +30\text{ °C}$	P_{dc}	5.7	kW	$T_j = +30\text{ °C}$	EERd	4.60	-
$T_j = +25\text{ °C}$	P_{dc}	3.7	kW	$T_j = +25\text{ °C}$	EERd	6.23	-
$T_j = +20\text{ °C}$	P_{dc}	1.7	kW	$T_j = +20\text{ °C}$	EERd	7.69	-
Verschlechterungskoeffizient des Kühlers (*)							
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0,014	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0,000	KW
Thermostat-Aus-Modus	P_{TO}	0,024	kW	Standby Modus	P_{SB}	0,014	KW
Andere Dinge							
Kapazitätskontrolle	Variable			Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	4000	m ³ /h
Schalleistungspegel, innen/außen	LWA	-/60	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenddurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei niedrigen Temperaturen						
Kontaktdetails	Siehe Rückseite des Handbuchs						
(**) Wenn Cdh nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):				8KW (Heizung 3 kW) ;8KW			
Außenseitiger Wärmetauscher des Chillers				Luft zu Wasser			
Innenseitiger Wärmetauscher-Kühler				Wasser			
Typ:				Kompressorbetriebene Dampfkompensation			
Treiber für Kompressor				Elektromotor			
Artikel							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Prated .c	8	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	318	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = +35\text{ °C}$	P_{dc}	8.0	kW	$T_j = +35\text{ °C}$	EERd	4.95	-
$T_j = +30\text{ °C}$	P_{dc}	6.4	kW	$T_j = +30\text{ °C}$	EERd	6.61	-
$T_j = +25\text{ °C}$	P_{dc}	4.3	kW	$T_j = +25\text{ °C}$	EERd	9.06	-
$T_j = +20\text{ °C}$	P_{dc}	1.8	kW	$T_j = +20\text{ °C}$	EERd	13.14	-
Verschlechterungskoeffizient des Kühlers (*)	C_{dc}	0.9	kW				
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0,014	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0,000	KW
Thermostat-Aus-Modus	P_{TO}	0,024	kW	Standby Modus	P_{SB}	0,014	KW
Andere Dinge							
Kapazitätskontrolle	Variable			Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	4000	m ³ /h
Schalleistungspegel, innen/außen	LWA	-/60	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenndurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei mittlerer Temperatur						
Kontaktdetails	Siehe Rückseite des Handbuchs						
(**) Wenn Cdh nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):				10KW (Heizung 3 kW) ;10KW			
Außenseitiger Wärmetauscher des Chillers				Luft zu Wasser			
Innenseitiger Wärmetauscher-Kühler				Wasser			
Typ:				Kompressorbetriebene Dampfkompensation			
Treiber für Kompressor				Elektromotor			
Artikel							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	Prated .c	8	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	212	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = +35\text{ °C}$	P_{dc}	8.1	kW	$T_j = +35\text{ °C}$	EERd	3.16	-
$T_j = +30\text{ °C}$	P_{dc}	6.6	kW	$T_j = +30\text{ °C}$	EERd	4.38	-
$T_j = +25\text{ °C}$	P_{dc}	4.3	kW	$T_j = +25\text{ °C}$	EERd	6.18	-
$T_j = +20\text{ °C}$	P_{dc}	1.9	kW	$T_j = +20\text{ °C}$	EERd	8.17	-
Verschlechterungskoeffizient des Kühlers (*)	C_{dc}	0.9	kW				
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0,014	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0,000	KW
Thermostat-Aus-Modus	P_{TO}	0,024	kW	Standby Modus	P_{SB}	0,014	KW
Andere Dinge							
Kapazitätskontrolle	Variable			Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	4500	m ³ /h
Schalleistungspegel, innen/außen	LWA	-/61	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenddurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei niedrigen Temperaturen						
Kontaktdetails	Siehe Rückseite des Handbuchs						
(**) Wenn Cdh nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):				10KW (Heizung 3 kW) ;10KW			
Außenseitiger Wärmetauscher des Chillers				Luft zu Wasser			
Innenseitiger Wärmetauscher-Kühler				Wasser			
Typ:				Kompressorbetriebene Dampfkompensation			
Treiber für Kompressor				Elektromotor			
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	$P_{rated.c}$	10	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	307	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = + 35 \text{ °C}$	P_{dc}	9.5	kW	$T_j = +35 \text{ °C}$	EERd	4.56	-
$T_j = + 30 \text{ °C}$	P_{dc}	7.7	kW	$T_j = + 30 \text{ °C}$	EERd	6.33	-
$T_j = + 25 \text{ °C}$	P_{dc}	4.9	kW	$T_j = + 25 \text{ °C}$	EERd	8.48	-
$T_j = + 20 \text{ °C}$	P_{dc}	2.3	kW	$T_j = + 20 \text{ °C}$	EERd	13.19	-
Verschlechterungskoeffizient des Kühlers (*)							
C_{dc}				0.9 kW			
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0,014	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0,000	KW
Thermostat-Aus-Modus	P_{TO}	0,024	kW	Standby Modus	P_{SB}	0,014	KW
Andere Dinge							
Kapazitätskontrolle	Variable			Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	4500	m ³ /h
Schalleistungspegel, innen/außen	LWA	-/61	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenddurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei mittlerer Temperatur						
Kontaktetails	Siehe Rückseite des Handbuchs						
(**) Wenn Cdh nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):				12KW (Heizung 3 kW) ;12KW			
Außenseitiger Wärmetauscher des Chillers				Luft zu Wasser			
Innenseitiger Wärmetauscher-Kühler				Wasser			
Typ:				Kompressorbetriebene Dampfkompensation			
Treiber für Kompressor				Elektromotor			
Artikel							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	$P_{rated,c}$	12	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	201	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = + 35 \text{ °C}$	P_{dc}	11.6	kW	$T_j = +35 \text{ °C}$	EERd	2.80	-
$T_j = + 30 \text{ °C}$	P_{dc}	8.7	kW	$T_j = + 30 \text{ °C}$	EERd	4.34	-
$T_j = + 25 \text{ °C}$	P_{dc}	5.8	kW	$T_j = + 25 \text{ °C}$	EERd	6.02	-
$T_j = + 20 \text{ °C}$	P_{dc}	2.6	kW	$T_j = + 20 \text{ °C}$	EERd	6.46	-
Verschlechterungskoeffizient des Kühlers (*)							
C_{dc}				0.9 kW			
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0,020	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0,000	KW
Thermostat-Aus-Modus	P_{TO}	0,010	kW	Standby Modus	P_{SB}	0,020	KW
Andere Dinge							
Kapazitätskontrolle				Variable			
				Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.			
Schalleistungspegel, innen/außen	LWA	-/64	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenddurchfluss außenseitiger Wärmetauscher			
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei niedrigen Temperaturen						
Kontaktetails	Siehe Rückseite des Handbuchs						
(**) Wenn Cdh nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):	12KW (Heizung 3 kW) ;12KW						
Außenseitiger Wärmetauscher des Chillers	Luft zu Wasser						
Innenseitiger Wärmetauscher-Kühler	Wasser						
Typ:	Kompressorbetriebene Dampfkompensation						
Treiber für Kompressor	Elektromotor						
Artikel							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	$P_{rated,c}$	12	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	295	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = +35\text{ °C}$	P_{dc}	12.0	kW	$T_j = +35\text{ °C}$	EERd	3.96	-
$T_j = +30\text{ °C}$	P_{dc}	9.3	kW	$T_j = +30\text{ °C}$	EERd	6.16	-
$T_j = +25\text{ °C}$	P_{dc}	5.6	kW	$T_j = +25\text{ °C}$	EERd	9.03	-
$T_j = +20\text{ °C}$	P_{dc}	3.5	kW	$T_j = +20\text{ °C}$	EERd	10.04	-
Verschlechterungskoeffizient des Kühlers (*)	C_{dc}	0.9	kW				
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0,020	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0,000	KW
Thermostat-Aus-Modus	P_{TO}	0,010	kW	Standby Modus	P_{SB}	0,020	KW
Andere Dinge							
Kapazitätskontrolle	Variable			Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	5000	m ³ /h
Schalleistungspegel, innen/außen	LWA	-/64	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenddurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei mittlerer Temperatur						
Kontaktetails	Siehe Rückseite des Handbuchs						
(**) Wenn C_{dh} nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):				14KW (Heizung 3 kW) ;14KW			
Außenseitiger Wärmetauscher des Chillers				Luft zu Wasser			
Innenseitiger Wärmetauscher-Kühler				Wasser			
Typ:				Kompressorbetriebene Dampfkompensation			
Treiber für Kompressor				Elektromotor			
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	$P_{rated.c}$	13	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	200	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = + 35 \text{ °C}$	P_{dc}	12.7	kW	$T_j = +35 \text{ °C}$	EERd	2.59	-
$T_j = + 30 \text{ °C}$	P_{dc}	9.5	kW	$T_j = + 30 \text{ °C}$	EERd	4.33	-
$T_j = + 25 \text{ °C}$	P_{dc}	6.3	kW	$T_j = + 25 \text{ °C}$	EERd	6.08	-
$T_j = + 20 \text{ °C}$	P_{dc}	3.0	kW	$T_j = + 20 \text{ °C}$	EERd	6.64	-
Verschlechterungskoeffizient des Kühlers (*)							
C_{dc}				0.9 kW			
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0,020	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0,000	KW
Thermostat-Aus-Modus	P_{TO}	0,010	kW	Standby Modus	P_{SB}	0,020	KW
Andere Dinge							
Kapazitätskontrolle	Variable			Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	5500	m ³ /h
Schalleistungspegel, innen/außen	LWA	-/66	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenddurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei niedrigen Temperaturen						
Kontaktفاصيل	Siehe Rückseite des Handbuchs						
(**) Wenn Cdh nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):				14KW (Heizung 3 kW) ;14KW			
Außenseitiger Wärmetauscher des Chillers				Luft zu Wasser			
Innenseitiger Wärmetauscher-Kühler				Wasser			
Typ:				Kompressorbetriebene Dampfkompensation			
Treiber für Kompressor				Elektromotor			
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	$P_{rated.c}$	14	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	281	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = + 35 \text{ °C}$	P_{dc}	13.6	kW	$T_j = +35 \text{ °C}$	EER_d	3.73	-
$T_j = + 30 \text{ °C}$	P_{dc}	10.4	kW	$T_j = + 30 \text{ °C}$	EER_d	5.75	-
$T_j = + 25 \text{ °C}$	P_{dc}	6.6	kW	$T_j = + 25 \text{ °C}$	EER_d	8.58	-
$T_j = + 20 \text{ °C}$	P_{dc}	3.5	kW	$T_j = + 20 \text{ °C}$	EER_d	9.96	-
Verschlechterungskoeffizient des Kühlers (*)							
C_{dc}				0.9 kW			
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0,020	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0.000	KW
Thermostat-Aus-Modus	P_{TO}	0,010	kW	Standby Modus	P_{SB}	0.020	KW
Andere Dinge							
Kapazitätskontrolle	Variable			Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	5500	m ³ /h
Schalleistungspegel, innen/außen	LWA	-/66	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenddurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei mittlerer Temperatur						
Kontaktفاصيل	Siehe Rückseite des Handbuchs						
(**) Wenn C_{dh} nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):				16KW (Heizung 3 kW) ;16KW			
Außenseitiger Wärmetauscher des Chillers				Luft zu Wasser			
Innenseitiger Wärmetauscher-Kühler				Wasser			
Typ:				Kompressorbetriebene Dampfkompensation			
Treiber für Kompressor				Elektromotor			
Artikel							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	$P_{rated,c}$	14	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	192	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = +35\text{ °C}$	P_{dc}	14.3	kW	$T_j = +35\text{ °C}$	EER_d	2.51	-
$T_j = +30\text{ °C}$	P_{dc}	10.6	kW	$T_j = +30\text{ °C}$	EER_d	3.70	-
$T_j = +25\text{ °C}$	P_{dc}	6.8	kW	$T_j = +25\text{ °C}$	EER_d	5.87	-
$T_j = +20\text{ °C}$	P_{dc}	3.5	kW	$T_j = +20\text{ °C}$	EER_d	7.23	-
Verschlechterungskoeffizient des Kühlers (*)							
C_{dc}				0.9 kW			
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0,020	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0.000	KW
Thermostat-Aus-Modus	P_{TO}	0,010	kW	Standby Modus	P_{SB}	0.020	KW
Andere Dinge							
Kapazitätskontrolle				Variable			
				Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.			
				-			
				6000			
				m ³ /h			
Schalleistungspegel, innen/außen	LWA	-/68	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenddurchfluss außenseitiger Wärmetauscher			
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei niedrigen Temperaturen						
Kontaktdetails	Siehe Rückseite des Handbuchs						
(**) Wenn C_{dh} nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):				16KW (Heizung 3 kW) ;16KW			
Außenseitiger Wärmetauscher des Chillers				Luft zu Wasser			
Innenseitiger Wärmetauscher-Kühler				Wasser			
Typ:				Kompressorbetriebene Dampfkompensation			
Treiber für Kompressor				Elektromotor			
Artikel							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	$P_{rated,c}$	15	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	280	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = +35\text{ °C}$	P_{dc}	15.4	kW	$T_j = +35\text{ °C}$	EER_d	3.50	-
$T_j = +30\text{ °C}$	P_{dc}	11.6	kW	$T_j = +30\text{ °C}$	EER_d	5.45	-
$T_j = +25\text{ °C}$	P_{dc}	7.3	kW	$T_j = +25\text{ °C}$	EER_d	8.35	-
$T_j = +20\text{ °C}$	P_{dc}	4.6	kW	$T_j = +20\text{ °C}$	EER_d	11.68	-
Verschlechterungskoeffizient des Kühlers (*)	C_{dc}	0.9	kW				
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0.020	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0.000	KW
Thermostat-Aus-Modus	P_{TO}	0.010	kW	Standby Modus	P_{SB}	0.020	KW
Andere Dinge							
Kapazitätskontrolle	Variable			Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	6000	m ³ /h
Schalleistungspegel, innen/außen	LWA	-/68	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenddurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei mittlerer Temperatur						
Kontaktdetails	Siehe Rückseite des Handbuchs						
(**) Wenn C_{dh} nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):	3-PH 12kW(Heizung 9kW);3-PH 12kW(Heizung 6kW); 3-PH 12kW(Heizung 3kW);3-PH 12kW						
Außenseitiger Wärmetauscher des Chillers	Luft zu Wasser						
Innenseitiger Wärmetauscher-Kühler	Wasser						
Typ:	Kompressorbetriebene Dampfkompensation						
Treiber für Kompressor	Elektromotor						
Artikel							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	$P_{rated,c}$	12	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	197	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = +35\text{ °C}$	P_{dc}	11.7	kW	$T_j = +35\text{ °C}$	EER_d	2.64	-
$T_j = +30\text{ °C}$	P_{dc}	8.8	kW	$T_j = +30\text{ °C}$	EER_d	4.09	-
$T_j = +25\text{ °C}$	P_{dc}	5.9	kW	$T_j = +25\text{ °C}$	EER_d	5.58	-
$T_j = +20\text{ °C}$	P_{dc}	4.1	kW	$T_j = +20\text{ °C}$	EER_d	8.01	-
Verschlechterungskoeffizient des Kühlers (*)	C_{dc}	0.9	kW				
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0.020	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0.000	KW
Thermostat-Aus-Modus	P_{TO}	0.010	kW	Standby Modus	P_{SB}	0.014	KW
Andere Dinge							
Kapazitätskontrolle	Variable			Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	5000	m ³ /h
Schalleistungspegel, innen/außen	LWA	-/64	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenddurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei niedrigen Temperaturen						
Kontaktdetails	Siehe Rückseite des Handbuchs						
(**) Wenn C_{dh} nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):	3-PH 12kW(Heizung 9kW);3-PH 12kW(Heizung 6kW); 3-PH 12kW(Heizung 3kW);3-PH 12kW						
Außenseitiger Wärmetauscher des Chillers	Luft zu Wasser						
Innenseitiger Wärmetauscher-Kühler	Wasser						
Typ:	Kompressorbetriebene Dampfkompensation						
Treiber für Kompressor	Elektromotor						
Artikel							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	$P_{rated,c}$	12	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	276	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = +35\text{ °C}$	P_{dc}	12.0	kW	$T_j = +35\text{ °C}$	EER_d	3.91	-
$T_j = +30\text{ °C}$	P_{dc}	9.3	kW	$T_j = +30\text{ °C}$	EER_d	5.67	-
$T_j = +25\text{ °C}$	P_{dc}	5.7	kW	$T_j = +25\text{ °C}$	EER_d	7.98	-
$T_j = +20\text{ °C}$	P_{dc}	5.1	kW	$T_j = +20\text{ °C}$	EER_d	11.37	-
Andere Dinge							
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0.014	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0.000	KW
Thermostat-Aus-Modus	P_{TO}	0.024	kW	Standby Modus	P_{SB}	0.014	KW
Andere Dinge							
Kapazitätskontrolle	Variable			Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	5000	m ³ /h
Schalleistungspegel, innen/außen	LWA	-/64	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenddurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei mittlerer Temperatur						
Kontaktetails	Siehe Rückseite des Handbuchs						
(**) Wenn Cdh nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):	3-PH 14kW(Heizung 9kW);3-PH 14kW(Heizung 6kW); 3-PH 14kW(Heizung 3kW);3-PH 14kW						
Außenseitiger Wärmetauscher des Chillers	Luft zu Wasser						
Innenseitiger Wärmetauscher-Kühler	Wasser						
Typ:	Kompressorbetriebene Dampfkompensation						
Treiber für Kompressor	Elektromotor						
Artikel							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	$P_{rated,c}$	13	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	188	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = +35\text{ °C}$	P_{dc}	12.7	kW	$T_j = +35\text{ °C}$	EER_d	2.36	-
$T_j = +30\text{ °C}$	P_{dc}	9.5	kW	$T_j = +30\text{ °C}$	EER_d	4.07	-
$T_j = +25\text{ °C}$	P_{dc}	6.1	kW	$T_j = +25\text{ °C}$	EER_d	5.76	-
$T_j = +20\text{ °C}$	P_{dc}	2.8	kW	$T_j = +20\text{ °C}$	EER_d	6.05	-
Andere Dinge							
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0.014	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0.000	KW
Thermostat-Aus-Modus	P_{TO}	0.024	kW	Standby Modus	P_{SB}	0.014	KW
Andere Dinge							
Kapazitätskontrolle	Variable			Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	5500	m ³ /h
Schalleistungspegel, innen/außen	LWA	-/66	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenddurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei niedrigen Temperaturen						
Kontaktdetails	Siehe Rückseite des Handbuchs						
(**) Wenn Cdh nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):	3-PH 14kW(Heizung 9kW);3-PH 14kW(Heizung 6kW); 3-PH 14kW(Heizung 3kW);3-PH 14kW						
Außenseitiger Wärmetauscher des Chillers	Luft zu Wasser						
Innenseitiger Wärmetauscher-Kühler	Wasser						
Typ:	Kompressorbetriebene Dampfkompensation						
Treiber für Kompressor	Elektromotor						
Artikel							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	$P_{rated,c}$	14	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	269	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = +35\text{ °C}$	P_{dc}	13.5	kW	$T_j = +35\text{ °C}$	EER_d	3.72	-
$T_j = +30\text{ °C}$	P_{dc}	10.3	kW	$T_j = +30\text{ °C}$	EER_d	5.51	-
$T_j = +25\text{ °C}$	P_{dc}	6.5	kW	$T_j = +25\text{ °C}$	EER_d	8.11	-
$T_j = +20\text{ °C}$	P_{dc}	3.4	kW	$T_j = +20\text{ °C}$	EER_d	9.49	-
Verschlechterungskoeffizient des Kühlers (*)	C_{dc}	0.9	kW				
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0.014	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0.000	KW
Thermostat-Aus-Modus	P_{TO}	0.024	kW	Standby Modus	P_{SB}	0.014	KW
Andere Dinge							
Kapazitätskontrolle	Variable			Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	5500	m ³ /h
Schalleistungspegel, innen/außen	LWA	-/66	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenddurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei mittlerer Temperatur						
Kontaktdetails	Siehe Rückseite des Handbuchs						
(**) Wenn Cdh nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9. (**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):	3-PH 16kW(Heizung 9kW);3-PH 16kW(Heizung 6kW); 3-PH 16kW(Heizung 3kW);3-PH 16kW						
Außenseitiger Wärmetauscher des Chillers	Luft zu Wasser						
Innenseitiger Wärmetauscher-Kühler	Wasser						
Typ:	Kompressorbetriebene Dampfkompensation						
Treiber für Kompressor	Elektromotor						
Artikel							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	$P_{rated,c}$	14	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	186	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = +35\text{ °C}$	P_{dc}	13.8	kW	$T_j = +35\text{ °C}$	EER_d	2.41	-
$T_j = +30\text{ °C}$	P_{dc}	10.9	kW	$T_j = +30\text{ °C}$	EER_d	3.65	-
$T_j = +25\text{ °C}$	P_{dc}	6.9	kW	$T_j = +25\text{ °C}$	EER_d	5.60	-
$T_j = +20\text{ °C}$	P_{dc}	3.6	kW	$T_j = +20\text{ °C}$	EER_d	7.08	-
Verschlechterungskoeffizient des Kühlers (*)	C_{dc}	0.9	kW				
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0.014	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0.000	KW
Thermostat-Aus-Modus	P_{TO}	0.024	kW	Standby Modus	P_{SB}	0.014	KW
Andere Dinge							
Kapazitätskontrolle	Variable			Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	6000	m ³ /h
Schalleistungspegel, innen/außen	LWA	-/68	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenddurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei niedrigen Temperaturen						
Kontaktdetails	Siehe Rückseite des Handbuchs						
(**) Wenn C_{dh} nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9. (**) Ab 26. September 2018.							

Informationspflichten für Komfortkühler

Modell(s):	3-PH 16kW(Heizung 9kW);3-PH 16kW(Heizung 6kW); 3-PH 16kW(Heizung 3kW);3-PH 16kW						
Außenseitiger Wärmetauscher des Chillers	Luft zu Wasser						
Innenseitiger Wärmetauscher-Kühler	Wasser						
Typ:	Kompressorbetriebene Dampfkompensation						
Treiber für Kompressor	Elektromotor						
Artikel							
Artikel	Symbol	Wert	Einheit	Artikel	Symbol	Wert	Einheit
Nennwärmeleistung (*)	$P_{rated,c}$	16	kW	Saisonale Raumheizungs-Energieeffizienz	$\eta_{s,c}$	263	%
Angegebene Kühlkapazität für Teillast bei gegebener Außentemperatur T_j				Erklärter Energieeffizienzfaktor für Kühlung bei Teillast bei gegebener Außentemperatur T_j			
$T_j = + 35 \text{ °C}$	P_{dc}	15.5	kW	$T_j = +35 \text{ °C}$	EER_d	3.35	-
$T_j = + 30 \text{ °C}$	P_{dc}	11.6	kW	$T_j = + 30 \text{ °C}$	EER_d	4.90	-
$T_j = + 25 \text{ °C}$	P_{dc}	7.5	kW	$T_j = + 25 \text{ °C}$	EER_d	7.91	-
$T_j = + 20 \text{ °C}$	P_{dc}	5.1	kW	$T_j = + 20 \text{ °C}$	EER_d	11.29	-
Verschlechterungskoeffizient des Kühlers (*)							
	C_{dc}	0.9	kW				
Stromverbrauch in anderen Modi als „aktiver Modus“							
Aus-Modus	P_{OFF}	0.014	kW	Kurbelgehäuseheizungsmodus	P_{ck}	0.000	KW
Thermostat-Aus-Modus	P_{TO}	0.024	kW	Standby Modus	P_{SB}	0.014	KW
Andere Dinge							
Kapazitätskontrolle		Variable		Für Luft-Wasser-Komfortkühler; Luftdurchsatz, im Freien gemessen.	-	6000	m ³ /h
Schallleistungspegel, innen/außen	LWA	-/68	dB	Für Wasser/Sole-Wasser-Kaltwassersätze; Sole- oder Wassernenndurchfluss außenseitiger Wärmetauscher	-	N/A	m ³ /h
Emissionen von Stickoxiden (falls zutreffend)	NOx(**)	-	Mg/kWh Input GCV				
GWP des Kältemittels	-	675	kg CO ₂ eq (100 Jahre)				
Verwendete Standardbewertungsbedingungen	Anwendung bei mittlerer Temperatur						
Kontakt details	Siehe Rückseite des Handbuchs						
(**) Wenn Cdh nicht durch Messung bestimmt wird, muss der standardmäßige Degradationskoeffizient von Kühlern sein 0,9.							
(**) Ab 26. September 2018.							

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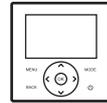
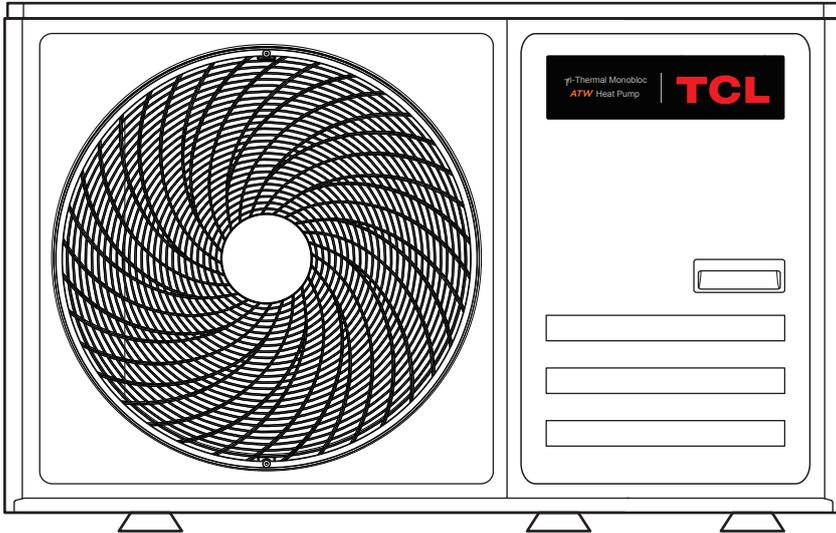
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TEKNİK VERİ KLAVUZU

Hava-su Isı Pompası Sistemi Üçlü Termal Monoblok.

4kW	THML-4D/HBp-A	3-PH 12kW	THML-12S/HBp-A
4kW(ısıtma 3kW)	THMLd-4D/3HBp-A	3-PH 12kW(ısıtma 3kW)	THMLd-12S/3HBp-A
6kW	THML-6D/HBp-A	3-PH 12kW(ısıtma 6kW)	THMLd-12S/6HBp-A
6kW(ısıtma 3kW)	THMLd-6D/3HBp-A	3-PH 12kW(ısıtma 9kW)	THMLd-12S/9HBp-A
8kW	THML-8D/HBp-A	3-PH 14kW	THML-14S/HBp-A
8kW(ısıtma 3kW)	THMLd-8D/3HBp-A	3-PH 14kW(ısıtma 3kW)	THMLd-14S/3HBp-A
10kW	THML-10D/HBp-A	3-PH 14kW(ısıtma 6kW)	THMLd-14S/6HBp-A
10kW(ısıtma 3kW)	THMLd-10D/3HBp-A	3-PH 14kW(ısıtma 9kW)	THMLd-14S/9HBp-A
12kW	THML-12D/HBp-A	3-PH 16kW	THML-16S/HBp-A
12kW(ısıtma 3kW)	THMLd-12D/3HBp-A	3-PH 16kW(ısıtma 3kW)	THMLd-16S/3HBp-A
14kW	THML-14D/HBp-A	3-PH 16kW(ısıtma 6kW)	THMLd-16S/6HBp-A
14kW(ısıtma 3kW)	THMLd-14D/3HBp-A	3-PH 16kW(ısıtma 9kW)	THMLd-16S/9HBp-A
16kW	THML-16D/HBp-A		
16kW(ısıtma 3kW)	THMLd-16D/3HBp-A		



ÖNEMLİ NOT:

Ürünümüzü satın aldığınız için çok teşekkür ederiz:

Ürününüzü kullanmadan önce lütfen bu kılavuzu dikkatlice okuyun ve gelecekte başvurmak üzere saklayın.

Teknik Özellikler

Teknik Özellikler			
Model	4kW(ısıtma 3kW);4kW		
Hava-su ısı pompası	evet		
Su-su ısı pompası	hayır		
Tuzlu su-su ısı pompası	hayır		
Düşük sıcaklık ısı pompası	hayır		
İlave ısıtıcı ile donatılmış	evet (için 4kW(ısıtma 3kW)) hayır (için 4kW)		
Isı pompası kombi ısıtıcı	hayır		
Belirtilen iklim koşulu;	Ortalama		
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;			
ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	5.7	kW
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j			
$T_j = -7^{\circ}\text{C}$	Prated	5.1	kW
$T_j = +2^{\circ}\text{C}$	P_{dh}	3.1	kW
$T_j = +7^{\circ}\text{C}$	P_{dh}	2.1	kW
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.7	kW
$T_j = \text{bivalent sıcaklık}$	P_{dh}	5.1	kW
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	4.6	kW
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW
Bivalent sıcaklık	T_{biv}	-7	°C
Isıtma için devir aralığı yetenekliği	P_{cych}	N/A	kW
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW
Active mod dışındaki modlarda güç tüketimi			
Kapalı mod	P_{OFF}	0.010	kW
Termostat-kapalı mod	P_{TO}	0.010	kW
Bekleme modu	P_{SB}	0.010	kW
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW
ÖĞE	Sembol	DEĞER	BİRİM
Mevsimsel mekan ısıtma enerji verimliliği	η_s	182	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	COPd	2.82	-
$T_j = +2^{\circ}\text{C}$	COPd	4.37	-
$T_j = +7^{\circ}\text{C}$	COPd	6.57	-
$T_j = +12^{\circ}\text{C}$	COPd	8.83	-
$T_j = \text{bivalent sıcaklık}$	COPd	2.82	-
$T_j = \text{işletme sınır sıcaklığı}$	COPd	2.60	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COPd	N/A	-
Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
İlave ısıtıcı			
Nominal ısı çıkışı (**)	p_{sup}	1.1	kW
Enerji giriş türü	Elektrik		
Diğer öğeler			
Kapasite kontrolü	değişken		Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan
İç/dış mekan ses güç seviyesi	L_{WA}	-/56	dB
Yıllık enerji tüketimi	Q_{HE}	2559	kWh
Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici			
Isı pompası kombi ısıtıcı için:			
Bildirilen yük profili	N/A		Su ısıtma enerji verimliliği
Günlük elektrik tüketimi	Q_{elec}	N/A	η_{wh}
Yıllık elektrik tüketimi	AEC	N/A	N/A
Günlük yakıt tüketimi		Q_{fuel}	N/A
Yıllık yakıt tüketimi		AFC	N/A
Yıllık enerji tüketimi		GJ	
İletişim bilgileri	Kılavuzun arka kapağına bakınız.		
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.			
(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.			

Teknik Özellikler

Teknik Özellikler			
Model	4kW(ısıtma 3kW);4kW		
Hava-su ısı pompası	evet		
Su-su ısı pompası	hayır		
Tuzlu su-su ısı pompası	hayır		
Düşük sıcaklık ısı pompası	hayır		
İlave ısıtıcı ile donatılmış	evet (için 4kW(ısıtma 3kW)) hayır (için 4kW)		
Isı pompası kombi ısıtıcı	hayır		
Belirtilen iklim koşulu;	daha sıcak		
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;			
ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	5.3	kW
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j			
$T_j = -7^{\circ}\text{C}$	Prated	N/A	kW
$T_j = +2^{\circ}\text{C}$	P_{dh}	5.3	kW
$T_j = +7^{\circ}\text{C}$	P_{dh}	3.4	kW
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.7	kW
$T_j = \text{bivalent sıcaklık}$	P_{dh}	3.4	kW
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	5.3	kW
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW
Bivalent sıcaklık	T_{biv}	7	°C
Isıtma için devir aralığı yetenekliği	P_{cych}	N/A	kW
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW
Active mod dışındaki modlarda güç tüketimi			
Kapalı mod	P_{OFF}	0.010	kW
Termostat-kapalı mod	P_{TO}	0.010	kW
Bekleme modu	P_{SB}	0.010	kW
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW
ÖĞE	Sembol	DEĞER	BİRİM
Mevimsel mekan ısıtma enerji verimliliği	η_s	264	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	COPd	N/A	-
$T_j = +2^{\circ}\text{C}$	COPd	3.39	-
$T_j = +7^{\circ}\text{C}$	COPd	5.81	-
$T_j = +12^{\circ}\text{C}$	COPd	8.62	-
$T_j = \text{bivalent sıcaklık}$	COPd	5.81	-
$T_j = \text{işletme sınır sıcaklığı}$	COPd	3.39	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COPd	N/A	-
Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C
Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
İlave ısıtıcı			
Nominal ısı çıkışı (**)	p_{sup}	0.0	kw
Enerji giriş türü	Elektrik		
Diğer öğeler			
Kapasite kontrolü	değişken		Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan
İç/dış mekan ses güç seviyesi	L_{WA}	-/56	dB
Yıllık enerji tüketimi	Q_{HE}	1065	kWh
Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici			
Isı pompası kombi ısıtıcı için:			
Bildirilen yük profili	N/A		
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh
İletişim bilgileri			
Kılavuzun arka kapağına bakınız.			
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($\text{sup}(T_j)$) eşittir.			
(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.			

Teknik Özellikler

Teknik Özellikler			
Model	4kW(ısıtma 3kW);4kW		
Hava-su ısı pompası	evet		
Su-su ısı pompası	hayır		
Tuzlu su-su ısı pompası	hayır		
Düşük sıcaklık ısı pompası	hayır		
İlave ısıtıcı ile donatılmış	evet (için 4kW(ısıtma 3kW)) hayır (için 4kW)		
Isı pompası kombi ısıtıcı	hayır		
Belirtilen iklim koşulu;	daha soğuk		
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;			
ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	5.0	kW
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j			
$T_j = -7^{\circ}\text{C}$	Prated	3.0	kW
$T_j = +2^{\circ}\text{C}$	P_{dh}	1.9	kW
$T_j = +7^{\circ}\text{C}$	P_{dh}	1.2	kW
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.6	kW
$T_j = \text{bivalent sıcaklık}$	P_{dh}	4.1	kW
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	3.3	kW
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW
Bivalent sıcaklık	T_{biv}	-15	°C
Isıtma için devir aralığı yetenekliği	P_{cyc}	N/A	kW
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW
Active mod dışındaki modlarda güç tüketimi			
Kapalı mod	P_{OFF}	0.010	kW
Termostat-kapalı mod	P_{TO}	0.010	kW
Bekleme modu	P_{SB}	0.010	kW
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW
ÖĞE	Sembol	DEĞER	BİRİM
Mevsimsel mekan ısıtma enerji verimliliği	η_s	160	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	COPd	3.45	-
$T_j = +2^{\circ}\text{C}$	COPd	5.00	-
$T_j = +7^{\circ}\text{C}$	COPd	5.73	-
$T_j = +12^{\circ}\text{C}$	COPd	7.84	-
$T_j = \text{bivalent sıcaklık}$	COPd	2.51	-
$T_j = \text{işletme sınır sıcaklığı}$	COPd	1.72	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COPd	N/A	-
Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C
Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
İlave ısıtıcı			
Nominal ısı çıkışı (**)	p_{sup}	2.7	kw
Enerji giriş türü	Elektrik		
Diğer öğeler			
Kapasite kontrolü	değişken		Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan
İç/dış mekan ses güç seviyesi	L_{WA}	-/56	dB
Yıllık enerji tüketimi	Q_{HE}	3038	kWh
			Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici
Isı pompası kombi ısıtıcı için:			
Bildirilen yük profili	N/A		Su ısıtma enerji verimliliği
Günlük elektrik tüketimi	Q_{elec}	N/A	η_{wh}
Yıllık elektrik tüketimi	AEC	N/A	N/A
			Günlük yakıt tüketimi
			Q_{fuel}
			Yıllık yakıt tüketimi
			AFC
İletişim bilgileri	Kılavuzun arka kapağına bakınız.		
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.			
(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.			

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Model	4kW(ısıtma 3kW);4kW		
Hava-su ısı pompası	evet		
Su-su ısı pompası	hayır		
Tuzlu su-su ısı pompası	hayır		
Düşük sıcaklık ısı pompası	hayır		
İlave ısıtıcı ile donatılmış	evet (için 4kW(ısıtma 3kW)) hayır (için 4kW)		
Isı pompası kombi ısıtıcı	hayır		
Belirtilen iklim koşulu;	Ortalama		
Parametreler orta sıcaklık uygulaması için belirtilmiştir.			
ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	4.7	kW
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T _j			
T _j = - 7°C	Prated	4.2	kW
T _j = + 2°C	P _{dh}	2.5	kW
T _j = + 7°C	P _{dh}	1.7	kW
T _j = + 12°C	P _{dh}	1.4	kW
T _j = bivalent sıcaklık	P _{dh}	4.2	kW
T _j = işletme sınır sıcaklığı	P _{dh}	3.7	kW
Hava-su ısı pompaları için: T _j = - 15°C (Eğer TOL < - 20°C)	P _{dh}	N/A	kW
Bivalent sıcaklık	T _{biv}	-7	°C
Isıtma için devir aralığı yetenekliği	P _{cyh}	N/A	kW
Değer kaybı katsayısı (**)	C _{dh}	0.9	kW
Active mod dışındaki modlarda güç tüketimi			
Kapalı mod	P _{OFF}	0.010	kW
Termostat-kapalı mod	P _{TO}	0.010	kW
Bekleme modu	P _{SB}	0.010	kW
Krank kasa ısıtıcı modu	P _{CK}	0.000	kW
ÖĞE	Sembol	DEĞER	BİRİM
Mevsimsel mekan ısıtma enerji verimliliği	η _s	131	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T _j			
T _j = - 7°C	COP _d	2.14	-
T _j = + 2°C	COP _d	3.26	-
T _j = + 7°C	COP _d	4.44	-
T _j = + 12°C	COP _d	5.54	-
T _j = bivalent sıcaklık	COP _d	2.14	-
T _j = işletme sınır sıcaklığı	COP _d	1.72	-
Hava-su ısı pompaları için: T _j = - 15°C (if TOL < - 20°C)	COP _d	N/A	-
Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Döngü aralığı verimliliği	COP _{cyc}	N/A	-
Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
İlave ısıtıcı			
Nominal ısı çıkışı (**)	p _{sup}	1.0	kw
Enerji giriş türü	Elektrik		
Diğer öğeler			
Kapasite kontrolü	değişken		Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan
İç/dış mekan ses güç seviyesi	L _{WA}	-/56	dB
Yıllık enerji tüketimi	Q _{HE}	2898	kWh
			Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici
Isı pompası kombi ısıtıcı için:			
Bildirilen yük profili	N/A		
Günlük elektrik tüketimi	Q _{elec}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh
Su ısıtma enerji verimliliği	η _{wh}	N/A	%
Günlük yakıt tüketimi	Q _{fuel}	N/A	kWh
Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.		
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.			
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.			

Teknik Özellikler

Model				4kW(ısıtma 3kW);4kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 4kW(ısıtma 3kW)) hayır (için 4kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha sıcak			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	5.0	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	165	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	N/A	kW	$T_j = -7^{\circ}\text{C}$	COPd	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	5.0	kW	$T_j = +2^{\circ}\text{C}$	COPd	2.31	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	3.2	kW	$T_j = +7^{\circ}\text{C}$	COPd	3.68	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.5	kW	$T_j = +12^{\circ}\text{C}$	COPd	5.21	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	3.2	kW	$T_j = \text{bivalent sıcaklık}$	COPd	3.68	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	5.0	kW	$T_j = \text{işletme sınır sıcaklığı}$	COPd	2.31	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer TOL < -20°C)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if TOL < -20°C)	COPd	N/A	-
Bivalent sıcaklık	T_{biv}	7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.010	kW	Nominal ısı çıkışı (**)	p_{sup}	0.0	kw
Termostat-kapalı mod	P_{TO}	0.010	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.010	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	2600	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-56	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	1604	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):	4kW(ısıtma 3kW);4kW
Hava-su ısı pompası	evet
Su-su ısı pompası	hayır
Tuzlu su-su ısı pompası	hayır
Düşük sıcaklık ısı pompası	hayır
İlave ısıtıcı ile donatılmış	evet (için 4kW(ısıtma 3kW)) hayır (için 4kW)
Isı pompası kombi ısıtıcı	hayır
Belirtilen iklim koşulu;	daha soğuk
Parametreler orta sıcaklık uygulaması için belirtilmiştir.	

ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	3.7	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	107	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	2.3	kW	$T_j = -7^{\circ}\text{C}$	COPd	2.34	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	1.4	kW	$T_j = +2^{\circ}\text{C}$	COPd	3.22	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	1.6	kW	$T_j = +7^{\circ}\text{C}$	COPd	4.58	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.5	kW	$T_j = +12^{\circ}\text{C}$	COPd	6.33	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	3.0	kW	$T_j = \text{bivalent sıcaklık}$	COPd	1.69	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	2.5	kW	$T_j = \text{işletme sınır sıcaklığı}$	COPd	1.17	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer TOL < -20°C)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if TOL < -20°C)	COPd	N/A	-
Bivalent sıcaklık	T_{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.010	kW	Nominal ısı çıkışı (**)	p_{sup}	1.2	kw
Termostat-kapalı mod	P_{TO}	0.010	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.010	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				

Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	2600	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-56	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	3308	kWh				

Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ

İletişim bilgileri Kılavuzun arka kapağına bakınız.

(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.

(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.

Teknik Özellikler

Model(s):	6kW(ısıtma 3kW);6kW
Hava-su ısı pompası	evet
Su-su ısı pompası	hayır
Tuzlu su-su ısı pompası	hayır
Düşük sıcaklık ısı pompası	hayır
İlave ısıtıcı ile donatılmış	evet (için 6kW(ısıtma 3kW)) hayır (için 6kW)
Isı pompası kombi ısıtıcı	hayır
Belirtilen iklim koşulu;	Ortalama
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;	

ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	7.0	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	182.7	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	6.2	kW	$T_j = -7^{\circ}\text{C}$	COPd	2.74	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	3.6	kW	$T_j = +2^{\circ}\text{C}$	COPd	4.39	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	2.5	kW	$T_j = +7^{\circ}\text{C}$	COPd	6.72	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.4	kW	$T_j = +12^{\circ}\text{C}$	COPd	8.13	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	6.2	kW	$T_j = \text{bivalent sıcaklık}$	COPd	2.74	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	6.0	kW	$T_j = \text{işletme sınır sıcaklığı}$	COPd	2.55	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COPd	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliği	P_{cyc}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.010	kW	Nominal ısı çıkışı (**)	p_{sup}	1.0	kw
Termostat-kapalı mod	P_{TO}	0.010	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.010	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				

Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	2800	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/59	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	3120	kWh				

Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ

İletişim bilgileri Kılavuzun arka kapağına bakınız.

(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.

(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.

Teknik Özellikler

Model(s):	6kW(ısıtma 3kW);6kW
Hava-su ısı pompası	evet
Su-su ısı pompası	hayır
Tuzlu su-su ısı pompası	hayır
Düşük sıcaklık ısı pompası	hayır
İlave ısıtıcı ile donatılmış	evet (için 6kW(ısıtma 3kW)) hayır (için 6kW)
Isı pompası kombi ısıtıcı	hayır
Belirtilen iklim koşulu;	daha sıcak
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;	

ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	6.0	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	264	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	N/A	kW	$T_j = -7^{\circ}\text{C}$	COPd	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	5.9	kW	$T_j = +2^{\circ}\text{C}$	COPd	3.49	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	3.9	kW	$T_j = +7^{\circ}\text{C}$	COPd	5.71	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	2.0	kW	$T_j = +12^{\circ}\text{C}$	COPd	8.78	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	3.9	kW	$T_j = \text{bivalent sıcaklık}$	COPd	5.71	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	5.9	kW	$T_j = \text{işletme sınır sıcaklığı}$	COPd	3.49	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COPd	N/A	-
Bivalent sıcaklık	T_{biv}	7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C
Isıtma için devir aralığı yetenekliği	P_{cyc}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.010	kW	Nominal ısı çıkışı (**)	p_{sup}	0.1	kw
Termostat-kapalı mod	P_{TO}	0.010	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.010	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				

Diğer öğeler

Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	2800	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/59	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	1202	kWh				

Isı pompası kombi ısıtıcı için:

Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ

İletişim bilgileri Kılavuzun arka kapağına bakınız.

(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.

(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.

Teknik Özellikler

Model(s):	6kW(ısıtma 3kW);6kW
Hava-su ısı pompası	evet
Su-su ısı pompası	hayır
Tuzlu su-su ısı pompası	hayır
Düşük sıcaklık ısı pompası	hayır
İlave ısıtıcı ile donatılmış	evet (için 6kW(ısıtma 3kW)) hayır (için 6kW)
Isı pompası kombi ısıtıcı	hayır
Belirtilen iklim koşulu;	daha soğuk
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;	

ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	6.0	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	166	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	3.6	kW	$T_j = -7^{\circ}\text{C}$	COPd	3.51	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	2.2	kW	$T_j = +2^{\circ}\text{C}$	COPd	5.36	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	1.5	kW	$T_j = +7^{\circ}\text{C}$	COPd	6.66	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.6	kW	$T_j = +12^{\circ}\text{C}$	COPd	7.97	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	4.9	kW	$T_j = \text{bivalent sıcaklık}$	COPd	2.39	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	3.6	kW	$T_j = \text{işletme sınır sıcaklığı}$	COPd	1.78	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COPd	N/A	-
Bivalent sıcaklık	T_{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C
Isıtma için devir aralığı yetenekliği	P_{cyc}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.010	kW	Nominal ısı çıkışı (**)	p_{sup}	2.4	kw
Termostat-kapalı mod	P_{TO}	0.010	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.010	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				

Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	2800	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/59	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	3515	kWh				

Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ

İletişim bilgileri Kılavuzun arka kapağına bakınız.

(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.

(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.

Teknik Özellikler

Model(s):				6kW(ısıtma 3kW);6kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 6kW(ısıtma 3kW)) hayır (için 6kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				Ortalama			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	6.0	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	137	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	5.3	kW	$T_j = -7^{\circ}\text{C}$	COPd	2.12	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	3.2	kW	$T_j = +2^{\circ}\text{C}$	COPd	3.43	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	2.1	kW	$T_j = +7^{\circ}\text{C}$	COPd	4.63	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.4	kW	$T_j = +12^{\circ}\text{C}$	COPd	5.70	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	5.3	kW	$T_j = \text{bivalent sıcaklık}$	COPd	2.12	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	5.0	kW	$T_j = \text{işletme sınır sıcaklığı}$	COPd	1.81	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer TOL < -20°C)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if TOL < -20°C)	COPd	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.010	kW	Nominal ısı çıkışı (**)	p_{sup}	1.0	kw
Termostat-kapalı mod	P_{TO}	0.010	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.010	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	2800	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-59	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	3557	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):				6kW(ısıtma 3kW);6kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 6kW(ısıtma 3kW)) hayır (için 6kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha sıcak			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	5.0	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	167	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	N/A	kW	$T_j = -7^{\circ}\text{C}$	COPd	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	5.0	kW	$T_j = +2^{\circ}\text{C}$	COPd	2.37	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	3.2	kW	$T_j = +7^{\circ}\text{C}$	COPd	3.72	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.6	kW	$T_j = +12^{\circ}\text{C}$	COPd	5.41	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	3.2	kW	$T_j = \text{bivalent sıcaklık}$	COPd	3.72	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	5.0	kW	$T_j = \text{işletme sınır sıcaklığı}$	COPd	2.37	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer TOL < -20°C)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if TOL < -20°C)	COPd	N/A	-
Bivalent sıcaklık	T_{biv}	7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.010	kW	Nominal ısı çıkışı (**)	p_{sup}	0.0	kW
Termostat-kapalı mod	P_{TO}	0.010	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.010	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	2800	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-59	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	1508	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):				6kW(ısıtma 3kW);6kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 6kW(ısıtma 3kW)) hayır (için 6kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha soğuk			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	5.0	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	113	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	3.1	kW	$T_j = -7^{\circ}\text{C}$	COPd	2.49	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	1.8	kW	$T_j = +2^{\circ}\text{C}$	COPd	3.52	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	1.2	kW	$T_j = +7^{\circ}\text{C}$	COPd	4.10	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.4	kW	$T_j = +12^{\circ}\text{C}$	COPd	6.18	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	4.0	kW	$T_j = \text{bivalent sıcaklık}$	COPd	1.74	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	2.5	kW	$T_j = \text{işletme sınır sıcaklığı}$	COPd	1.17	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer TOL < -20°C)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if TOL < -20°C)	COPd	N/A	-
Bivalent sıcaklık	T_{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.010	kW	Nominal ısı çıkışı (**)	p_{sup}	2.5	kw
Termostat-kapalı mod	P_{TO}	0.010	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.010	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	2800	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-59	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	4204	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):	8kW(ısıtma 3kW);8kW
Hava-su ısı pompası	evet
Su-su ısı pompası	hayır
Tuzlu su-su ısı pompası	hayır
Düşük sıcaklık ısı pompası	hayır
İlave ısıtıcı ile donatılmış	evet (için 8kW(ısıtma 3kW)) hayır (için 8kW)
Isı pompası kombi ısıtıcı	hayır
Belirtilen iklim koşulu;	Ortalama
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;	

ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	8	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	200	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	7.1	kW	$T_j = -7^{\circ}\text{C}$	COP_d	3.12	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	4.7	kW	$T_j = +2^{\circ}\text{C}$	COP_d	4.99	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	3.0	kW	$T_j = +7^{\circ}\text{C}$	COP_d	6.81	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.7	kW	$T_j = +12^{\circ}\text{C}$	COP_d	8.00	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	7.1	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	3.12	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	6.5	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.84	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliği	P_{cych}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	1.5	kW
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				

Diğer öğeler

Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	4000	m^3/h
İç/dış mekan ses güç seviyesi	L_{WA}	-/60	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m^3/h
Yıllık enerji tüketimi	Q_{HE}	3276	kWh				

Isı pompası kombi ısıtıcı için:

Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ

İletişim bilgileri Kılavuzun arka kapağına bakınız.

(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.

(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.

Teknik Özellikler

Model(s):				8kW(ısıtma 3kW);8kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 8kW(ısıtma 3kW)) hayır (için 8kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha sıcak			
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	8	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	278	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	7.7	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.82	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	5.0	kW	$T_j = +7^{\circ}\text{C}$	COP_d	6.12	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	2.6	kW	$T_j = +12^{\circ}\text{C}$	COP_d	9.15	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	5.0	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	6.12	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	7.7	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	3.82	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	0.3	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji girişi türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	4000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/60	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	1492	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.							
(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.							

Teknik Özellikler

Model(s):	8kW(ısıtma 3kW);8kW
Hava-su ısı pompası	evet
Su-su ısı pompası	hayır
Tuzlu su-su ısı pompası	hayır
Düşük sıcaklık ısı pompası	hayır
İlave ısıtıcı ile donatılmış	evet (için 8kW(ısıtma 3kW)) hayır (için 8kW)
Isı pompası kombi ısıtıcı	hayır
Belirtilen iklim koşulu;	daha soğuk
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;	

ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	7	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	167	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	4.4	kW	$T_j = -7^{\circ}\text{C}$	COP_d	3.59	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	2.6	kW	$T_j = +2^{\circ}\text{C}$	COP_d	5.30	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	1.6	kW	$T_j = +7^{\circ}\text{C}$	COP_d	5.98	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.9	kW	$T_j = +12^{\circ}\text{C}$	COP_d	8.42	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	5.7	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.61	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	4.0	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	1.93	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C
Isıtma için devir aralığı yetenekliği	P_{cych}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	3.0	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				

Diğer öğeler

Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	4000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/60	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	4044	kWh				

Isı pompası kombi ısıtıcı için:

Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ

İletişim bilgileri Kılavuzun arka kapağına bakınız.

(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.

(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.

Teknik Özellikler

Model(s):				8kW(ısıtma 3kW);8kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 8kW(ısıtma 3kW)) hayır (için 8kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				Ortalama			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	7	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	136	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	5.8	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.20	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	3.7	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.37	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	2.4	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.57	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.6	kW	$T_j = +12^{\circ}\text{C}$	COP_d	5.87	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	5.8	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.20	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	5.0	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	1.84	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	2.0	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	4000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/60	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	3937	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.							
(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.							

Teknik Özellikler

Model(s):				8kW(ısıtma 3kW);8kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 8kW(ısıtma 3kW)) hayır (için 8kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha sıcak			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖGE	Sembol	DEĞER	BİRİM	ÖGE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	8	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	171	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	Prated	N/A	kW	$T_j = -7^\circ\text{C}$	COP _d	N/A	-
$T_j = +2^\circ\text{C}$	P _{dh}	7.4	kW	$T_j = +2^\circ\text{C}$	COP _d	2.52	-
$T_j = +7^\circ\text{C}$	P _{dh}	4.9	kW	$T_j = +7^\circ\text{C}$	COP _d	3.60	-
$T_j = +12^\circ\text{C}$	P _{dh}	2.2	kW	$T_j = +12^\circ\text{C}$	COP _d	5.80	-
$T_j = \text{bivalent sıcaklık}$	P _{dh}	4.9	kW	$T_j = \text{bivalent sıcaklık}$	COP _d	3.60	-
$T_j = \text{işletme sınır sıcaklığı}$	P _{dh}	7.4	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP _d	2.52	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer TOL < -20°C)	P _{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if TOL < -20°C)	COP _d	N/A	-
Bivalent sıcaklık	T _{biv}	7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C
Isıtma için devir aralığı yetenekliliği	P _{cych}	N/A	kW	Döngü aralığı verimliliği	COP _{cyc}	N/A	-
Değer kaybı katsayısı (**)	C _{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P _{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p _{sup}	0.6	kw
Termostat-kapalı mod	P _{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P _{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P _{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	4000	m ³ /h
İç/dış mekan ses güç seviyesi	L _{WA}	-/60	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q _{HE}	2347	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q _{elec}	N/A	kWh	Günlük yakıt tüketimi	Q _{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):				8kW(ısıtma 3kW);8kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 8kW(ısıtma 3kW)) hayır (için 8kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha soğuk			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	6	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	115	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	3.8	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.48	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	2.2	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.59	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	1.4	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.08	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.5	kW	$T_j = +12^{\circ}\text{C}$	COP_d	6.01	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	4.8	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	1.87	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	3.2	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	1.31	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C
Isıtma için devir aralığı yetenekliliği	P_{cych}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	2.8	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	4000	m^3/h
İç/dış mekan ses güç seviyesi	L_{WA}	-/60	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m^3/h
Yıllık enerji tüketimi	Q_{HE}	4891	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):	10kW(ısıtma 3kW);10kW
Hava-su ısı pompası	evet
Su-su ısı pompası	hayır
Tuzlu su-su ısı pompası	hayır
Düşük sıcaklık ısı pompası	hayır
İlave ısıtıcı ile donatılmış	evet (için 10kW(ısıtma 3kW)) hayır (için 10kW)
Isı pompası kombi ısıtıcı	hayır
Belirtilen iklim koşulu;	Ortalama
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;	

ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	9	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	199	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	8.0	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.99	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	5.0	kW	$T_j = +2^{\circ}\text{C}$	COP_d	4.97	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	3.1	kW	$T_j = +7^{\circ}\text{C}$	COP_d	6.78	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	2.0	kW	$T_j = +12^{\circ}\text{C}$	COP_d	9.10	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	8.0	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.99	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	7.3	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.72	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliği	P_{cyc}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	1.7	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				

Diğer öğeler

Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	4500	m^3/h
İç/dış mekan ses güç seviyesi	L_{WA}	-/61	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m^3/h
Yıllık enerji tüketimi	Q_{HE}	3702	kWh				

Isı pompası kombi ısıtıcı için:

Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ

İletişim bilgileri Kılavuzun arka kapağına bakınız.

(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.

(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.

Teknik Özellikler

Model(s):				10kW(ısınma 3kW);10kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 10kW(ısıtma 3kW)) hayır (için 10kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha sıcak			
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	9	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	268	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP _d	N/A	-
$T_j = +2^{\circ}\text{C}$	P _{dh}	8.4	kW	$T_j = +2^{\circ}\text{C}$	COP _d	3.67	-
$T_j = +7^{\circ}\text{C}$	P _{dh}	5.5	kW	$T_j = +7^{\circ}\text{C}$	COP _d	5.99	-
$T_j = +12^{\circ}\text{C}$	P _{dh}	2.4	kW	$T_j = +12^{\circ}\text{C}$	COP _d	8.73	-
$T_j = \text{bivalent sıcaklık}$	P _{dh}	5.5	kW	$T_j = \text{bivalent sıcaklık}$	COP _d	5.99	-
$T_j = \text{işletme sınır sıcaklığı}$	P _{dh}	8.4	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP _d	3.67	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer TOL < -20°C)	P _{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if TOL < -20°C)	COP _d	N/A	-
Bivalent sıcaklık	T _{biv}	7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C
Isıtma için devir aralığı yetenekliği	P _{cyh}	N/A	kW	Döngü aralığı verimliliği	COP _{cyc}	N/A	-
Değer kaybı katsayısı (**)	C _{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P _{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p _{sup}	0.6	kw
Termostat-kapalı mod	P _{TO}	0.024	kW	Enerji girişi türü	Elektrik		
Bekleme modu	P _{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P _{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	4500	m ³ /h
İç/dış mekan ses güç seviyesi	L _{WA}	-/61	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q _{HE}	1694	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q _{elec}	N/A	kWh	Günlük yakıt tüketimi	Q _{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):				10kW(ısınma 3kW);10kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 10kW(ısıtma 3kW)) hayır (için 10kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha soğuk			
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	8	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	170	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	Prated	4.7	kW	$T_j = -7^\circ\text{C}$	COP_d	3.50	-
$T_j = +2^\circ\text{C}$	P_{dh}	3.0	kW	$T_j = +2^\circ\text{C}$	COP_d	5.51	-
$T_j = +7^\circ\text{C}$	P_{dh}	2.0	kW	$T_j = +7^\circ\text{C}$	COP_d	6.63	-
$T_j = +12^\circ\text{C}$	P_{dh}	1.9	kW	$T_j = +12^\circ\text{C}$	COP_d	8.58	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	6.3	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.56	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	4.6	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	1.99	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $\text{TOL} < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $\text{TOL} < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	3.4	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji girişi türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	4500	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/61	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	4417	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.							
(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.							

Teknik Özellikler

Model(s):				10kW(ısıtma 3kW);10kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 10kW(ısıtma 3kW)) hayır (için 10kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				Ortalama			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	8	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	138	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	Prated	6.8	kW	$T_j = -7^\circ\text{C}$	COP_d	2.10	-
$T_j = +2^\circ\text{C}$	P_{dh}	4.2	kW	$T_j = +2^\circ\text{C}$	COP_d	3.44	-
$T_j = +7^\circ\text{C}$	P_{dh}	2.6	kW	$T_j = +7^\circ\text{C}$	COP_d	4.74	-
$T_j = +12^\circ\text{C}$	P_{dh}	1.8	kW	$T_j = +12^\circ\text{C}$	COP_d	6.22	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	6.8	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.10	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	5.2	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	1.83	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $\text{TOL} < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $\text{TOL} < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	2.8	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	4500	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/61	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	4537	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):				10kW(ısıtma 3kW);10kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 10kW(ısıtma 3kW)) hayır (için 10kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha sıcak			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖGE	Sembol	DEĞER	BİRİM	ÖGE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	8	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	179	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	Prated	N/A	kW	$T_j = -7^\circ\text{C}$	COP_d	N/A	-
$T_j = +2^\circ\text{C}$	P_{dh}	7.6	kW	$T_j = +2^\circ\text{C}$	COP_d	2.27	-
$T_j = +7^\circ\text{C}$	P_{dh}	5.2	kW	$T_j = +7^\circ\text{C}$	COP_d	3.92	-
$T_j = +12^\circ\text{C}$	P_{dh}	2.5	kW	$T_j = +12^\circ\text{C}$	COP_d	6.17	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	5.2	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	3.92	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	7.6	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.27	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $\text{TOL} < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $\text{TOL} < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C
Isıtma için devir aralığı yetenekliliği	P_{cych}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	0.4	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	4500	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/61	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	2353	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

TEKNİK ÖZELLİKLER

Model(s):	10kW(ısıtma 3kW);10kW
Hava-su ısı pompası	evet
Su-su ısı pompası	hayır
Tuzlu su-su ısı pompası	hayır
Düşük sıcaklık ısı pompası	hayır
İlave ısıtıcı ile donatılmış	evet (için 10kW(ısıtma 3kW)) hayır (için 10kW)
Isı pompası kombi ısıtıcı	hayır
Belirtilen iklim koşulu;	daha soğuk
Parametreler orta sıcaklık uygulaması için belirtilmiştir.	

ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	7	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	116	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	4.1	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.53	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	2.6	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.51	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	1.7	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.52	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.7	kW	$T_j = +12^{\circ}\text{C}$	COP_d	6.51	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	5.5	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	1.92	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	2.8	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	1.24	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-15	$^{\circ}\text{C}$	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	$^{\circ}\text{C}$
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	$^{\circ}\text{C}$
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	4.2	kW
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				

Diğer öğeler

Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	4500	m^3/h
İç/dış mekan ses güç seviyesi	L_{WA}	-/61	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m^3/h
Yıllık enerji tüketimi	Q_{HE}	5613	kWh				

Isı pompası kombi ısıtıcı için:

Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ

İletişim bilgileri Kılavuzun arka kapağına bakınız.

(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.

(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.

Teknik Özellikler

Model(s):				12kW(ısınma 3kW);12kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 12kW(ısıtma 3kW)) hayır (için 12kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				Ortalama			
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	12	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	188	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	Prated	10.7	kW	$T_j = -7^\circ\text{C}$	COP_d	2.90	-
$T_j = +2^\circ\text{C}$	P_{dh}	7.0	kW	$T_j = +2^\circ\text{C}$	COP_d	4.53	-
$T_j = +7^\circ\text{C}$	P_{dh}	4.6	kW	$T_j = +7^\circ\text{C}$	COP_d	6.66	-
$T_j = +12^\circ\text{C}$	P_{dh}	4.2	kW	$T_j = +12^\circ\text{C}$	COP_d	8.92	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	10.7	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.90	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	11.4	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.63	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $\text{TOL} < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $\text{TOL} < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	0.6	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji girişi türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/64	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	5261	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.							
(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.							

Teknik Özellikler

Model(s):				12kW(ısınma 3kW);12kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 12kW(ısıtma 3kW)) hayır (için 12kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha sıcak			
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	11	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	253	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	11.1	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.62	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	7.1	kW	$T_j = +7^{\circ}\text{C}$	COP_d	5.64	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.7	kW	$T_j = +12^{\circ}\text{C}$	COP_d	8.33	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	7.1	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	5.64	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	11.1	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	3.62	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	0.0	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji girişi türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/64	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	2326	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.							
(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.							

Teknik Özellikler

Model(s):	12kW(ısıtma 3kW);12kW
Hava-su ısı pompası	evet
Su-su ısı pompası	hayır
Tuzlu su-su ısı pompası	hayır
Düşük sıcaklık ısı pompası	hayır
İlave ısıtıcı ile donatılmış	evet (için 12kW(ısıtma 3kW)) hayır (için 12kW)
Isı pompası kombi ısıtıcı	hayır
Belirtilen iklim koşulu;	daha soğuk
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;	

ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	11	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	163	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	Prated	7.2	kW	$T_j = -7^\circ\text{C}$	COP_d	3.51	-
$T_j = +2^\circ\text{C}$	P_{dh}	4.1	kW	$T_j = +2^\circ\text{C}$	COP_d	5.05	-
$T_j = +7^\circ\text{C}$	P_{dh}	3.2	kW	$T_j = +7^\circ\text{C}$	COP_d	6.18	-
$T_j = +12^\circ\text{C}$	P_{dh}	3.6	kW	$T_j = +12^\circ\text{C}$	COP_d	8.19	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	9.3	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.59	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	7.1	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.08	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $\text{TOL} < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $\text{TOL} < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C
Isıtma için devir aralığı yetenekliği	P_{cych}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	3.9	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				

Diğer öğeler

Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/64	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	6746	kWh				

Isı pompası kombi ısıtıcı için:

Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ

İletişim bilgileri Kılavuzun arka kapağına bakınız.

(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.

(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.

Teknik Özellikler

Model(s):				12kW(ısıtma 3kW);12kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 12kW(ısıtma 3kW)) hayır (için 12kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				Ortalama			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	12	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	136	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	10.7	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.12	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	6.6	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.29	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	4.4	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.74	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.0	kW	$T_j = +12^{\circ}\text{C}$	COP_d	7.28	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	10.7	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.12	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	9.9	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	1.82	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	2.1	kW
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/64	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	7224	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):				12kW(ısıtma 3kW);12kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 12kW(ısıtma 3kW)) hayır (için 12kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha sıcak			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	12	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	174	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	12.1	kW	$T_j = +2^{\circ}\text{C}$	COP_d	2.27	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	8.0	kW	$T_j = +7^{\circ}\text{C}$	COP_d	3.76	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.3	kW	$T_j = +12^{\circ}\text{C}$	COP_d	5.95	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	8.0	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	3.76	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	12.1	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.27	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	7	$^{\circ}\text{C}$	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	$^{\circ}\text{C}$
Isıtma için devir aralığı yetenekliliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	$^{\circ}\text{C}$
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	0.0	kW
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5000	m^3/h
İç/dış mekan ses güç seviyesi	L_{WA}	-/64	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m^3/h
Yıllık enerji tüketimi	Q_{HE}	3761	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):				12kW(ısıtma 3kW);12kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 12kW(ısıtma 3kW)) hayır (için 12kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha soğuk			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	10	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	119	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	6.7	kW	$T_j = -7^{\circ}\text{C}$	COP _d	2.58	-
$T_j = +2^{\circ}\text{C}$	P _{dh}	4.0	kW	$T_j = +2^{\circ}\text{C}$	COP _d	3.68	-
$T_j = +7^{\circ}\text{C}$	P _{dh}	2.9	kW	$T_j = +7^{\circ}\text{C}$	COP _d	4.57	-
$T_j = +12^{\circ}\text{C}$	P _{dh}	3.3	kW	$T_j = +12^{\circ}\text{C}$	COP _d	6.59	-
$T_j = \text{bivalent sıcaklık}$	P _{dh}	8.5	kW	$T_j = \text{bivalent sıcaklık}$	COP _d	1.84	-
$T_j = \text{işletme sınır sıcaklığı}$	P _{dh}	4.6	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP _d	1.21	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer TOL < -20°C)	P _{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if TOL < -20°C)	COP _d	N/A	-
Bivalent sıcaklık	T _{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C
Isıtma için devir aralığı yetenekliliği	P _{cych}	N/A	kW	Döngü aralığı verimliliği	COP _{cyc}	N/A	-
Değer kaybı katsayısı (**)	C _{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P _{OFF}	0.014	kW	Nominal ısı çıkışı (**)			
Termostat-kapalı mod	P _{TO}	0.024	kW	Enerji giriş türü			
Bekleme modu	P _{SB}	0.014	kW	Elektrik			
Krank kasa ısıtıcı modu	P _{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5000	m ³ /h
İç/dış mekan ses güç seviyesi	L _{WA}	-/64	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q _{HE}	8470	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q _{elec}	N/A	kWh	Günlük yakıt tüketimi	Q _{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):				14kW(ısınma 3kW);14kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 14kW(ısıtma 3kW)) hayır (için 14kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				Ortalama			
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	14	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	182	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	12.4	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.80	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	7.5	kW	$T_j = +2^{\circ}\text{C}$	COP_d	4.38	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	5.2	kW	$T_j = +7^{\circ}\text{C}$	COP_d	6.53	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.5	kW	$T_j = +12^{\circ}\text{C}$	COP_d	8.58	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	12.4	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.80	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	12.8	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.51	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	1.2	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji girişi türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5500	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/66	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	6238	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.							
(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.							

Teknik Özellikler

Model(s):	14kW(ısıtma 3kW);14kW
Hava-su ısı pompası	evet
Su-su ısı pompası	hayır
Tuzlu su-su ısı pompası	hayır
Düşük sıcaklık ısı pompası	hayır
İlave ısıtıcı ile donatılmış	evet (için 14kW(ısıtma 3kW)) hayır (için 14kW)
Isı pompası kombi ısıtıcı	hayır
Belirtilen iklim koşulu;	daha sıcak
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;	

ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	12	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	248	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	12.3	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.40	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	8.0	kW	$T_j = +7^{\circ}\text{C}$	COP_d	5.60	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.2	kW	$T_j = +12^{\circ}\text{C}$	COP_d	7.94	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	8.0	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	5.60	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	12.3	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	3.40	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C
Isıtma için devir aralığı yetenekliği	P_{cych}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)			
Termostat-kapalı mod	P_{TO}	0.024	kW	p_{sup}			
Bekleme modu	P_{SB}	0.014	kW	0.0			
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW	Enerji giriş türü			
				Elektrik			

Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5500	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/66	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	2638	kWh				

Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ

İletişim bilgileri Kılavuzun arka kapağına bakınız.

(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.

(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.

Teknik Özellikler

Model(s):				14kW(ısınma 3kW);14kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 14kW(ısıtma 3kW)) hayır (için 14kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha soğuk			
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	13	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	156	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	Prated	8.2	kW	$T_j = -7^\circ\text{C}$	COP_d	3.35	-
$T_j = +2^\circ\text{C}$	P_{dh}	4.6	kW	$T_j = +2^\circ\text{C}$	COP_d	4.72	-
$T_j = +7^\circ\text{C}$	P_{dh}	3.4	kW	$T_j = +7^\circ\text{C}$	COP_d	6.10	-
$T_j = +12^\circ\text{C}$	P_{dh}	3.8	kW	$T_j = +12^\circ\text{C}$	COP_d	8.00	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	10.6	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.55	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	7.9	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.10	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $\text{TOL} < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $\text{TOL} < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	5.1	kW
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji girişi türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5500	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/66	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	8111	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.							
(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.							

Teknik Özellikler

Model(s):				14kW(ısıtma 3kW);14kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 14kW(ısıtma 3kW)) hayır (için 14kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				Ortalama			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖGE	Sembol	DEĞER	BİRİM	ÖGE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	12	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	134	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	Prated	10.9	kW	$T_j = -7^\circ\text{C}$	COP _d	1.99	-
$T_j = +2^\circ\text{C}$	P _{dh}	6.9	kW	$T_j = +2^\circ\text{C}$	COP _d	3.26	-
$T_j = +7^\circ\text{C}$	P _{dh}	4.5	kW	$T_j = +7^\circ\text{C}$	COP _d	4.79	-
$T_j = +12^\circ\text{C}$	P _{dh}	4.0	kW	$T_j = +12^\circ\text{C}$	COP _d	7.25	-
$T_j = \text{bivalent sıcaklık}$	P _{dh}	10.9	kW	$T_j = \text{bivalent sıcaklık}$	COP _d	1.99	-
$T_j = \text{işletme sınır sıcaklığı}$	P _{dh}	10.3	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP _d	1.81	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer TOL < -20°C)	P _{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if TOL < -20°C)	COP _d	N/A	-
Bivalent sıcaklık	T _{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliliği	P _{cych}	N/A	kW	Döngü aralığı verimliliği	COP _{cyc}	N/A	-
Değer kaybı katsayısı (**)	C _{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P _{OFF}	0.014	kW	Nominal ısı çıkışı (**)			
Termostat-kapalı mod	P _{TO}	0.024	kW	Enerji giriş türü			
Bekleme modu	P _{SB}	0.014	kW	Elektrik			
Krank kasa ısıtıcı modu	P _{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5500	m ³ /h
İç/dış mekan ses güç seviyesi	L _{WA}	-/66	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q _{HE}	7427	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q _{elec}	N/A	kWh	Günlük yakıt tüketimi	Q _{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):	14kW(ısıtma 3kW);14kW
Hava-su ısı pompası	evet
Su-su ısı pompası	hayır
Tuzlu su-su ısı pompası	hayır
Düşük sıcaklık ısı pompası	hayır
İlave ısıtıcı ile donatılmış	evet (için 14kW(ısıtma 3kW)) hayır (için 14kW)
Isı pompası kombi ısıtıcı	hayır
Belirtilen iklim koşulu;	daha sıcak
Parametreler orta sıcaklık uygulaması için belirtilmiştir.	

ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	14	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	170	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	13.1	kW	$T_j = +2^{\circ}\text{C}$	COP_d	2.25	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	9.0	kW	$T_j = +7^{\circ}\text{C}$	COP_d	3.61	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.1	kW	$T_j = +12^{\circ}\text{C}$	COP_d	5.94	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	9.0	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	3.61	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	13.1	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.25	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	7	$^{\circ}\text{C}$	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	$^{\circ}\text{C}$
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	$^{\circ}\text{C}$
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	0.0	kW
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				

Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5500	m^3/h
İç/dış mekan ses güç seviyesi	L_{WA}	-/66	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m^3/h
Yıllık enerji tüketimi	Q_{HE}	4323	kWh				

Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ

İletişim bilgileri Kılavuzun arka kapağına bakınız.

(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.

(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.

Teknik Özellikler

Model(s):				14kW(ısıtma 3kW);14kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 14kW(ısıtma 3kW)) hayır (için 14kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha soğuk			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	11	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	117	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	Prated	7.2	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.56	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	4.2	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.62	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	3.1	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.77	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	3.6	kW	$T_j = +12^{\circ}\text{C}$	COP_d	6.40	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	8.9	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	1.82	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	4.4	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	1.16	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-15	$^{\circ}\text{C}$	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	$^{\circ}\text{C}$
Isıtma için devir aralığı yetenekliliği	P_{cydh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	$^{\circ}\text{C}$
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)			
Termostat-kapalı mod	P_{TO}	0.024	kW	p_{sup}	6.6	kW	
Bekleme modu	P_{SB}	0.014	kW	Enerji giriş türü			
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW	Elektrik			
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5500	m^3/h
İç/dış mekan ses güç seviyesi	L_{WA}	-/66	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m^3/h
Yıllık enerji tüketimi	Q_{HE}	8975	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):				16kW(ısınma 3kW);16kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 16kW(ısıtma 3kW)) hayır (için 16kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				Ortalama			
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	15	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	179	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	Prated	13.4	kW	$T_j = -7^\circ\text{C}$	COP_d	2.66	-
$T_j = +2^\circ\text{C}$	P_{dh}	8.0	kW	$T_j = +2^\circ\text{C}$	COP_d	4.33	-
$T_j = +7^\circ\text{C}$	P_{dh}	5.4	kW	$T_j = +7^\circ\text{C}$	COP_d	6.48	-
$T_j = +12^\circ\text{C}$	P_{dh}	4.6	kW	$T_j = +12^\circ\text{C}$	COP_d	8.96	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	13.4	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.66	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	13.4	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.46	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $\text{TOL} < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $\text{TOL} < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	1.6	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji girişi türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	6000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/68	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	6863	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.							
(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.							

Teknik Özellikler

Model(s):				16kW(ısınma 3kW);16kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 16kW(ısıtma 3kW)) hayır (için 16kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha sıcak			
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	13	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	239	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	Prated	N/A	kW	$T_j = -7^\circ\text{C}$	COP_d	N/A	-
$T_j = +2^\circ\text{C}$	P_{dh}	13.3	kW	$T_j = +2^\circ\text{C}$	COP_d	3.33	-
$T_j = +7^\circ\text{C}$	P_{dh}	8.5	kW	$T_j = +7^\circ\text{C}$	COP_d	5.19	-
$T_j = +12^\circ\text{C}$	P_{dh}	4.8	kW	$T_j = +12^\circ\text{C}$	COP_d	7.95	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	8.5	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	5.19	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	13.3	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	3.33	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $\text{TOL} < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $\text{TOL} < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	0.0	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji girişi türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	6000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/68	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	2934	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.							
(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.							

Teknik Özellikler

Model(s):				16kW(ısınma 3kW);16kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 16kW(ısıtma 3kW)) hayır (için 16kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha soğuk			
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	14	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	156	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	9.1	kW	$T_j = -7^{\circ}\text{C}$	COP_d	3.30	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	5.0	kW	$T_j = +2^{\circ}\text{C}$	COP_d	4.87	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	4.2	kW	$T_j = +7^{\circ}\text{C}$	COP_d	6.50	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	3.7	kW	$T_j = +12^{\circ}\text{C}$	COP_d	7.59	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	11.3	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.28	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	9.8	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	1.89	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	4.2	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji girişi türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	6000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/68	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	8616	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.							
(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.							

Teknik Özellikler

Model(s):				16kW(ısıtma 3kW);16kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 16kW(ısıtma 3kW)) hayır (için 16kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				Ortalama			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖGE	Sembol	DEĞER	BİRİM	ÖGE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	13	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	136	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	11.3	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.04	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	7.3	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.31	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	4.8	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.81	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.0	kW	$T_j = +12^{\circ}\text{C}$	COP_d	7.35	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	11.3	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.04	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	11.2	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	1.72	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliliği	P_{cydh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	1.8	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	6000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/68	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	7593	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):				16kW(ısıtma 3kW);16kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 16kW(ısıtma 3kW)) hayır (için 16kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha sıcak			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	14	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	171	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	P_{dh}	N/A	kW	$T_j = -7^\circ\text{C}$	COP_d	N/A	-
$T_j = +2^\circ\text{C}$	P_{dh}	13.2	kW	$T_j = +2^\circ\text{C}$	COP_d	2.30	-
$T_j = +7^\circ\text{C}$	P_{dh}	9.0	kW	$T_j = +7^\circ\text{C}$	COP_d	3.68	-
$T_j = +12^\circ\text{C}$	P_{dh}	4.1	kW	$T_j = +12^\circ\text{C}$	COP_d	5.80	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	9.0	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	3.68	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	13.2	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.30	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C
Isıtma için devir aralığı yetenekliliği	P_{cydh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	0.8	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	6000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/68	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	4329	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

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Model(s):				16kW(ısıtma 3kW);16kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 16kW(ısıtma 3kW)) hayır (için 16kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha soğuk			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	12	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	121	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	P_{dh}	7.7	kW	$T_j = -7^\circ\text{C}$	COP_d	2.61	-
$T_j = +2^\circ\text{C}$	P_{dh}	4.5	kW	$T_j = +2^\circ\text{C}$	COP_d	3.78	-
$T_j = +7^\circ\text{C}$	P_{dh}	3.2	kW	$T_j = +7^\circ\text{C}$	COP_d	4.87	-
$T_j = +12^\circ\text{C}$	P_{dh}	3.6	kW	$T_j = +12^\circ\text{C}$	COP_d	6.39	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	9.6	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	1.84	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	5.1	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	1.04	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C
Isıtma için devir aralığı yetenekliliği	P_{cydh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	6.9	kW
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	6000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/68	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	9389	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

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Model(s):	3-PH 12kW(ısıtma 9kW);3-PH 12kW(ısıtma 6kW);3-PH 12kW(ısıtma 3kW);3-PH 12kW						
Hava-su ısı pompası	evet						
Su-su ısı pompası	hayır						
Tuzlu su-su ısı pompası	hayır						
Düşük sıcaklık ısı pompası	hayır						
İlave ısıtıcı ile donatılmış	evet (için 3-PH 12kW(ısıtma 9kW));(3-PH 12kW(ısıtma 6kW));(3-PH 12kW(ısıtma 3kW));hayır (için 3-PH 12kW)						
Isı pompası kombi ısıtıcı	hayır						
Belirtilen iklim koşulu;	Ortalama						
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	12	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	187	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	10.7	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.90	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	7.0	kW	$T_j = +2^{\circ}\text{C}$	COP_d	4.53	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	4.6	kW	$T_j = +7^{\circ}\text{C}$	COP_d	6.65	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.2	kW	$T_j = +12^{\circ}\text{C}$	COP_d	8.92	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	10.7	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.90	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	11.4	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.63	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliği	P_{cych}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	0.6	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/64	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	5256	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

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Model(s):	3-PH 12kW(ısıtma 9kW);3-PH 12kW(ısıtma 6kW);3-PH 12kW(ısıtma 3kW);3-PH 12kW						
Hava-su ısı pompası	evet						
Su-su ısı pompası	hayır						
Tuzlu su-su ısı pompası	hayır						
Düşük sıcaklık ısı pompası	hayır						
İlave ısıtıcı ile donatılmış	evet (için 3-PH 12kW(ısıtma 9kW));(3-PH 12kW(ısıtma 6kW));(3-PH 12kW(ısıtma 3kW));hayır (için 3-PH 12kW)						
Isı pompası kombi ısıtıcı	hayır						
Belirtilen iklim koşulu;	daha sıcak						
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	11	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	253	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	11.1	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.62	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	7.2	kW	$T_j = +7^{\circ}\text{C}$	COP_d	5.64	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.7	kW	$T_j = +12^{\circ}\text{C}$	COP_d	8.34	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	7.2	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	5.64	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	11.1	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	3.62	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C
Isıtma için devir aralığı yetenekliği	P_{cych}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)			
Termostat-kapalı mod	P_{TO}	0.024	kW				
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
				Enerji giriş türü			
				Elektrik			
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/64	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici			
Yıllık enerji tüketimi	Q_{HE}	2325	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

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Model(s):	3-PH 12kW(ısıtma 9kW);3-PH 12kW(ısıtma 6kW);3-PH 12kW(ısıtma 3kW);3-PH 12kW						
Hava-su ısı pompası	evet						
Su-su ısı pompası	hayır						
Tuzlu su-su ısı pompası	hayır						
Düşük sıcaklık ısı pompası	hayır						
İlave ısıtıcı ile donatılmış	evet (için 3-PH 12kW(ısıtma 9kW));(3-PH 12kW(ısıtma 6kW));(3-PH 12kW(ısıtma 3kW));hayır (için 3-PH 12kW)						
Isı pompası kombi ısıtıcı	hayır						
Belirtilen iklim koşulu;	daha soğuk						
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	11	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	163	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	P_{dh}	7.2	kW	$T_j = -7^\circ\text{C}$	COP_d	3.51	-
$T_j = +2^\circ\text{C}$	P_{dh}	4.2	kW	$T_j = +2^\circ\text{C}$	COP_d	5.06	-
$T_j = +7^\circ\text{C}$	P_{dh}	3.2	kW	$T_j = +7^\circ\text{C}$	COP_d	6.20	-
$T_j = +12^\circ\text{C}$	P_{dh}	3.6	kW	$T_j = +12^\circ\text{C}$	COP_d	8.19	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	9.3	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.59	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	7.1	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.08	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C
Isıtma için devir aralığı yetenekliği	P_{cych}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)			
Termostat-kapalı mod	P_{TO}	0.024	kW				
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
				Enerji giriş türü			
				Elektrik			
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/64	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	6738	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

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Model(s):	3-PH 12kW(ısıtma 9kW);3-PH 12kW(ısıtma 6kW);3-PH 12kW(ısıtma 3kW);3-PH 12kW						
Hava-su ısı pompası	evet						
Su-su ısı pompası	hayır						
Tuzlu su-su ısı pompası	hayır						
Düşük sıcaklık ısı pompası	hayır						
İlave ısıtıcı ile donatılmış	evet (için 3-PH 12kW(ısıtma 9kW));(3-PH 12kW(ısıtma 6kW));(3-PH 12kW(ısıtma 3kW));hayır (için 3-PH 12kW)						
Isı pompası kombi ısıtıcı	hayır						
Belirtilen iklim koşulu;	Ortalama						
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	12	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	138	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	10.7	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.13	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	6.6	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.33	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	4.4	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.88	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.0	kW	$T_j = +12^{\circ}\text{C}$	COP_d	7.67	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	10.7	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.13	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	10.0	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	1.82	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	2.0	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/64	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	7085	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.							
(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.							

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Model(s):				3-PH 12kW(ısıtma 9kW);3-PH 12kW(ısıtma 6kW);3-PH 12kW(ısıtma 3kW);3-PH 12kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 3-PH 12kW(ısıtma 9kW));(3-PH 12kW(ısıtma 6kW));(3-PH 12kW(ısıtma 3kW));hayır (için 3-PH 12kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha sıcak			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	12	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	175	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	P_{dh}	N/A	kW	$T_j = -7^\circ\text{C}$	COP_d	N/A	-
$T_j = +2^\circ\text{C}$	P_{dh}	12.1	kW	$T_j = +2^\circ\text{C}$	COP_d	2.27	-
$T_j = +7^\circ\text{C}$	P_{dh}	8.0	kW	$T_j = +7^\circ\text{C}$	COP_d	3.85	-
$T_j = +12^\circ\text{C}$	P_{dh}	4.3	kW	$T_j = +12^\circ\text{C}$	COP_d	5.95	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	8.0	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	3.85	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	12.1	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.27	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	0.0	kW
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/64	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	3733	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

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Model(s):				3-PH 12kW(ısıtma 9kW);3-PH 12kW(ısıtma 6kW);3-PH 12kW(ısıtma 3kW);3-PH 12kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 3-PH 12kW(ısıtma 9kW));(3-PH 12kW(ısıtma 6kW));(3-PH 12kW(ısıtma 3kW));hayır (için 3-PH 12kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha soğuk			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	10	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	119	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	P_{dh}	6.7	kW	$T_j = -7^\circ\text{C}$	COP_d	2.58	-
$T_j = +2^\circ\text{C}$	P_{dh}	4.0	kW	$T_j = +2^\circ\text{C}$	COP_d	3.68	-
$T_j = +7^\circ\text{C}$	P_{dh}	2.9	kW	$T_j = +7^\circ\text{C}$	COP_d	4.57	-
$T_j = +12^\circ\text{C}$	P_{dh}	3.3	kW	$T_j = +12^\circ\text{C}$	COP_d	6.59	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	8.5	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	1.89	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	4.7	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	1.21	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	5.3	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/64	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	8459	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

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Model(s):	3-PH 14kW(ısıtma 9kW);3-PH 14kW(ısıtma 6kW);3-PH 14kW(ısıtma 3kW);3-PH 14kW						
Hava-su ısı pompası	evet						
Su-su ısı pompası	hayır						
Tuzlu su-su ısı pompası	hayır						
Düşük sıcaklık ısı pompası	hayır						
İlave ısıtıcı ile donatılmış	evet (için 3-PH 14kW(ısıtma 9kW));(3-PH 14kW(ısıtma 6kW));(3-PH 14kW(ısıtma 3kW));hayır (için 3-PH 14kW)						
Isı pompası kombi ısıtıcı	hayır						
Belirtilen iklim koşulu;	Ortalama						
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	14	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	182	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	12.4	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.80	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	7.5	kW	$T_j = +2^{\circ}\text{C}$	COP_d	4.40	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	5.1	kW	$T_j = +7^{\circ}\text{C}$	COP_d	6.38	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.9	kW	$T_j = +12^{\circ}\text{C}$	COP_d	9.16	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	12.4	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.80	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	12.9	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.63	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliği	P_{cych}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	1.1	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5500	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/66	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	6237	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

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Model(s):	3-PH 14kW(ısıtma 9kW);3-PH 14kW(ısıtma 6kW);3-PH 14kW(ısıtma 3kW);3-PH 14kW						
Hava-su ısı pompası	evet						
Su-su ısı pompası	hayır						
Tuzlu su-su ısı pompası	hayır						
Düşük sıcaklık ısı pompası	hayır						
İlave ısıtıcı ile donatılmış	evet (için 3-PH 14kW(ısıtma 9kW));(3-PH 14kW(ısıtma 6kW));(3-PH 14kW(ısıtma 3kW));hayır (için 3-PH 14kW)						
Isı pompası kombi ısıtıcı	hayır						
Belirtilen iklim koşulu;	daha sıcak						
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	12	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	248	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	12.3	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.41	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	8.0	kW	$T_j = +7^{\circ}\text{C}$	COP_d	5.61	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.2	kW	$T_j = +12^{\circ}\text{C}$	COP_d	7.94	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	8.0	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	5.61	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	12.3	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	3.41	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C
Isıtma için devir aralığı yetenekliği	P_{cych}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)			
Termostat-kapalı mod	P_{TO}	0.024	kW				
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
				Enerji giriş türü			
				Elektrik			
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5500	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/66	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici			
Yıllık enerji tüketimi	Q_{HE}	2638	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

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Model(s):	3-PH 14kW(ısıtma 9kW);3-PH 14kW(ısıtma 6kW);3-PH 14kW(ısıtma 3kW);3-PH 14kW						
Hava-su ısı pompası	evet						
Su-su ısı pompası	hayır						
Tuzlu su-su ısı pompası	hayır						
Düşük sıcaklık ısı pompası	hayır						
İlave ısıtıcı ile donatılmış	evet (için 3-PH 14kW(ısıtma 9kW));(3-PH 14kW(ısıtma 6kW));(3-PH 14kW(ısıtma 3kW));hayır (için 3-PH 14kW)						
Isı pompası kombi ısıtıcı	hayır						
Belirtilen iklim koşulu;	daha soğuk						
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	13	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	156	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	8.3	kW	$T_j = -7^{\circ}\text{C}$	COP_d	3.36	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	4.7	kW	$T_j = +2^{\circ}\text{C}$	COP_d	4.73	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	3.4	kW	$T_j = +7^{\circ}\text{C}$	COP_d	6.11	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	3.8	kW	$T_j = +12^{\circ}\text{C}$	COP_d	7.98	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	10.7	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.61	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	7.9	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.10	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C
Isıtma için devir aralığı yetenekliği	P_{cych}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	5.1	kW
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5500	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/66	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	8082	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):				3-PH 14kW(ısıtma 9kW);3-PH 14kW(ısıtma 6kW);3-PH 14kW(ısıtma 3kW);3-PH 14kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 3-PH 14kW(ısıtma 9kW));(3-PH 14kW(ısıtma 6kW));(3-PH 14kW(ısıtma 3kW));hayır (için 3-PH 14kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				Ortalama			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	12	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	135	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	P_{dh}	10.9	kW	$T_j = -7^\circ\text{C}$	COP_d	2.03	-
$T_j = +2^\circ\text{C}$	P_{dh}	7.1	kW	$T_j = +2^\circ\text{C}$	COP_d	3.35	-
$T_j = +7^\circ\text{C}$	P_{dh}	4.8	kW	$T_j = +7^\circ\text{C}$	COP_d	4.67	-
$T_j = +12^\circ\text{C}$	P_{dh}	4.0	kW	$T_j = +12^\circ\text{C}$	COP_d	7.27	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	10.9	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.03	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	10.0	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	1.79	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	2.0	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5500	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/66	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	7384	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):				3-PH 14kW(ısıtma 9kW);3-PH 14kW(ısıtma 6kW);3-PH 14kW(ısıtma 3kW);3-PH 14kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 3-PH 14kW(ısıtma 9kW));(3-PH 14kW(ısıtma 6kW));(3-PH 14kW(ısıtma 3kW));hayır (için 3-PH 14kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha sıcak			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	14	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	170	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	13.1	kW	$T_j = +2^{\circ}\text{C}$	COP_d	2.25	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	9.0	kW	$T_j = +7^{\circ}\text{C}$	COP_d	3.61	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.1	kW	$T_j = +12^{\circ}\text{C}$	COP_d	5.94	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	9.0	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	3.61	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	13.1	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.25	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	0.9	kW
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5500	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/66	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	4320	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):				3-PH 14kW(ısıtma 9kW);3-PH 14kW(ısıtma 6kW);3-PH 14kW(ısıtma 3kW);3-PH 14kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 3-PH 14kW(ısıtma 9kW));(3-PH 14kW(ısıtma 6kW));(3-PH 14kW(ısıtma 3kW));hayır (için 3-PH 14kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha soğuk			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	11	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	117	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	7.2	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.56	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	4.3	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.62	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	3.1	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.77	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	3.6	kW	$T_j = +12^{\circ}\text{C}$	COP_d	6.40	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	8.9	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	1.82	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	4.4	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	1.16	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	6.6	kW
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	5500	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/66	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	8967	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

Teknik Özellikler

Model(s):	3-PH 16kW(ısıtma 9kW);3-PH 16kW(ısıtma 6kW);3-PH 16kW(ısıtma 3kW);3-PH 16kW
Hava-su ısı pompası	evet
Su-su ısı pompası	hayır
Tuzlu su-su ısı pompası	hayır
Düşük sıcaklık ısı pompası	hayır
İlave ısıtıcı ile donatılmış	evet (için 3-PH 16kW(ısıtma 9kW));(3-PH 16kW(ısıtma 6kW));(3-PH 16kW(ısıtma 3kW));hayır (için 3-PH 16kW)
Isı pompası kombi ısıtıcı	hayır
Belirtilen iklim koşulu;	Ortalama
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;	

ÖGE	Sembol	DEĞER	BİRİM	ÖGE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	15	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	179	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	P_{dh}	13.4	kW	$T_j = -7^\circ\text{C}$	COP_d	2.60	-
$T_j = +2^\circ\text{C}$	P_{dh}	8.0	kW	$T_j = +2^\circ\text{C}$	COP_d	4.39	-
$T_j = +7^\circ\text{C}$	P_{dh}	5.4	kW	$T_j = +7^\circ\text{C}$	COP_d	6.44	-
$T_j = +12^\circ\text{C}$	P_{dh}	4.6	kW	$T_j = +12^\circ\text{C}$	COP_d	8.92	-
$T_j =$ bivalent sıcaklık	P_{dh}	13.4	kW	$T_j =$ bivalent sıcaklık	COP_d	2.60	-
$T_j =$ işletme sınır sıcaklığı	P_{dh}	13.4	kW	$T_j =$ işletme sınır sıcaklığı	COP_d	2.44	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	1.6	kw
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü			Elektrik
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				

Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	6000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/68	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	6838	kWh				

Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						

(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.

(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.

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Model(s):	3-PH 16kW(ısıtma 9kW);3-PH 16kW(ısıtma 6kW);3-PH 16kW(ısıtma 3kW);3-PH 16kW								
Hava-su ısı pompası	evet								
Su-su ısı pompası	hayır								
Tuzlu su-su ısı pompası	hayır								
Düşük sıcaklık ısı pompası	hayır								
İlave ısıtıcı ile donatılmış	evet (için 3-PH 16kW(ısıtma 9kW));(3-PH 16kW(ısıtma 6kW));(3-PH 16kW(ısıtma 3kW));hayır (için 3-PH 16kW)								
Isı pompası kombi ısıtıcı	hayır								
Belirtilen iklim koşulu;	daha sıcak								
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;									
ÖGE	Sembol	DEĞER	BİRİM	ÖGE	Sembol	DEĞER	BİRİM		
Nominal ısı çıkışı (*)	Prated	13	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	239	%		
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j					
$T_j = -7^\circ\text{C}$	P_{dh}	N/A	kW	$T_j = -7^\circ\text{C}$	COP_d	N/A	-		
$T_j = +2^\circ\text{C}$	P_{dh}	13.3	kW	$T_j = +2^\circ\text{C}$	COP_d	3.33	-		
$T_j = +7^\circ\text{C}$	P_{dh}	8.6	kW	$T_j = +7^\circ\text{C}$	COP_d	5.20	-		
$T_j = +12^\circ\text{C}$	P_{dh}	4.8	kW	$T_j = +12^\circ\text{C}$	COP_d	7.95	-		
$T_j =$ bivalent sıcaklık	P_{dh}	8.6	kW	$T_j =$ bivalent sıcaklık	COP_d	5.20	-		
$T_j =$ işletme sınır sıcaklığı	P_{dh}	13.3	kW	$T_j =$ işletme sınır sıcaklığı	COP_d	3.33	-		
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$)	COP_d	N/A	-		
Bivalent sıcaklık	T_{biv}	7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C		
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-		
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C		
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı					
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	0.0	kw		
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik				
Bekleme modu	P_{SB}	0.014	kW						
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW						
Diğer öğeler									
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	6000	m ³ /h		
İç/dış mekan ses güç seviyesi	L_{WA}	-/68	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h		
Yıllık enerji tüketimi	Q_{HE}	2933	kWh						
Isı pompası kombi ısıtıcı için:									
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%		
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh		
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ		
İletişim bilgileri	Kılavuzun arka kapağına bakınız.								
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.									
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.									

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Model(s):	3-PH 16kW(ısıtma 9kW);3-PH 16kW(ısıtma 6kW);3-PH 16kW(ısıtma 3kW);3-PH 16kW								
Hava-su ısı pompası	evet								
Su-su ısı pompası	hayır								
Tuzlu su-su ısı pompası	hayır								
Düşük sıcaklık ısı pompası	hayır								
İlave ısıtıcı ile donatılmış	evet (için 3-PH 16kW(ısıtma 9kW));(3-PH 16kW(ısıtma 6kW));(3-PH 16kW(ısıtma 3kW));hayır (için 3-PH 16kW)								
Isı pompası kombi ısıtıcı	hayır								
Belirtilen iklim koşulu;	daha soğuk								
Parametreler düşük sıcaklık uygulaması için belirtilmiştir;									
ÖGE	Sembol	DEĞER	BİRİM	ÖGE	Sembol	DEĞER	BİRİM		
Nominal ısı çıkışı (*)	Prated	14	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	156	%		
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j					
$T_j = -7^\circ\text{C}$	P_{dh}	9.1	kW	$T_j = -7^\circ\text{C}$	COP_d	3.32	-		
$T_j = +2^\circ\text{C}$	P_{dh}	5.0	kW	$T_j = +2^\circ\text{C}$	COP_d	4.88	-		
$T_j = +7^\circ\text{C}$	P_{dh}	4.2	kW	$T_j = +7^\circ\text{C}$	COP_d	6.50	-		
$T_j = +12^\circ\text{C}$	P_{dh}	3.7	kW	$T_j = +12^\circ\text{C}$	COP_d	7.59	-		
$T_j = \text{bivalent sıcaklık}$	P_{dh}	11.3	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.28	-		
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	9.8	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	1.89	-		
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$)	COP_d	N/A	-		
Bivalent sıcaklık	T_{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C		
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-		
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C		
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı					
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	4.2	kw		
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik				
Bekleme modu	P_{SB}	0.014	kW						
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW						
Diğer öğeler									
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	6000	m ³ /h		
İç/dış mekan ses güç seviyesi	L_{WA}	-/68	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h		
Yıllık enerji tüketimi	Q_{HE}	8597	kWh						
Isı pompası kombi ısıtıcı için:									
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%		
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh		
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ		
İletişim bilgileri	Kılavuzun arka kapağına bakınız.								
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.									
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.									

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Model(s):				3-PH 16kW(ısıtma 9kW);3-PH 16kW(ısıtma 6kW);3-PH 16kW(ısıtma 3kW);3-PH 16kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 3-PH 16kW(ısıtma 9kW));(3-PH 16kW(ısıtma 6kW));(3-PH 16kW(ısıtma 3kW));hayır (için 3-PH 16kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				Ortalama			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	13	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	136	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^\circ\text{C}$	P_{dh}	11.3	kW	$T_j = -7^\circ\text{C}$	COP_d	2.04	-
$T_j = +2^\circ\text{C}$	P_{dh}	7.3	kW	$T_j = +2^\circ\text{C}$	COP_d	3.33	-
$T_j = +7^\circ\text{C}$	P_{dh}	4.8	kW	$T_j = +7^\circ\text{C}$	COP_d	4.81	-
$T_j = +12^\circ\text{C}$	P_{dh}	4.0	kW	$T_j = +12^\circ\text{C}$	COP_d	7.36	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	11.3	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	2.04	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	11.3	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	1.78	-
Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (Eğer $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-10	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	1.7	kW
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	6000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/68	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	7571	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

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Model(s):				3-PH 16kW(ısıtma 9kW);3-PH 16kW(ısıtma 6kW);3-PH 16kW(ısıtma 3kW);3-PH 16kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 3-PH 16kW(ısıtma 9kW));(3-PH 16kW(ısıtma 6kW));(3-PH 16kW(ısıtma 3kW));hayır (için 3-PH 16kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha sıcak			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated	14	kW	Mevsimsel mekan ısıtma enerji verimliliği	η_s	171	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	13.2	kW	$T_j = +2^{\circ}\text{C}$	COP_d	2.32	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	9.1	kW	$T_j = +7^{\circ}\text{C}$	COP_d	3.70	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.1	kW	$T_j = +12^{\circ}\text{C}$	COP_d	5.80	-
$T_j = \text{bivalent sıcaklık}$	P_{dh}	9.1	kW	$T_j = \text{bivalent sıcaklık}$	COP_d	3.70	-
$T_j = \text{işletme sınır sıcaklığı}$	P_{dh}	13.2	kW	$T_j = \text{işletme sınır sıcaklığı}$	COP_d	2.32	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (Eğer $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	7	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	2	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	0.8	kW
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	6000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/68	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	4321	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (Prated) ısıtma tasarım yüküne (Pdesignh) eşittir ve ilave ısıtıcının (Psup) nominal ısı çıkışı, ilave ısıtma kapasitesine (sup(Tj)) eşittir.							
(**) Eğer Cdh ölçümle belirlenmemişse, varsayılan bozunma katsayısı Cdh = 0.9'dur.							

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Model(s):				3-PH 16kW(ısıtma 9kW);3-PH 16kW(ısıtma 6kW);3-PH 16kW(ısıtma 3kW);3-PH 16kW			
Hava-su ısı pompası				evet			
Su-su ısı pompası				hayır			
Tuzlu su-su ısı pompası				hayır			
Düşük sıcaklık ısı pompası				hayır			
İlave ısıtıcı ile donatılmış				evet (için 3-PH 16kW(ısıtma 9kW));(3-PH 16kW(ısıtma 6kW));(3-PH 16kW(ısıtma 3kW));hayır (için 3-PH 16kW)			
Isı pompası kombi ısıtıcı				hayır			
Belirtilen iklim koşulu;				daha soğuk			
Parametreler orta sıcaklık uygulaması için belirtilmiştir.							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	P_{rated}	12	kW	Mevsimsel mekan ısıtma enerji verimliliği	H_s	121	%
İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte ısıtma için belirtilen kapasite T_j				İç mekan sıcaklığı 20 °C ve dış mekan sıcaklığında kısmi yükte belirtilen ısıtma kapasitesi T_j			
$T_j = -7^{\circ}C$	P_{dh}	7.8	kW	$T_j = -7^{\circ}C$	COP_d	2.64	-
$T_j = +2^{\circ}C$	P_{dh}	4.5	kW	$T_j = +2^{\circ}C$	COP_d	3.78	-
$T_j = +7^{\circ}C$	P_{dh}	3.2	kW	$T_j = +7^{\circ}C$	COP_d	4.87	-
$T_j = +12^{\circ}C$	P_{dh}	3.7	kW	$T_j = +12^{\circ}C$	COP_d	6.40	-
$T_j =$ bivalent sıcaklık	P_{dh}	9.6	kW	$T_j =$ bivalent sıcaklık	COP_d	1.85	-
$T_j =$ işletme sınır sıcaklığı	P_{dh}	5.1	kW	$T_j =$ işletme sınır sıcaklığı	COP_d	1.04	-
Hava-su ısı pompaları için: $T_j = -15^{\circ}C$ (Eğer $TOL < -20^{\circ}C$)	P_{dh}	N/A	kW	Hava-su ısı pompaları için: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-
Bivalent sıcaklık	T_{biv}	-15	°C	Hava-su ısı pompaları için: İşletme sınır sıcaklığı	TOL	-22	°C
Isıtma için devir aralığı yetenekliği	P_{cyh}	N/A	kW	Döngü aralığı verimliliği	COP_{cyc}	N/A	-
Değer kaybı katsayısı (**)	C_{dh}	0.9	kW	Isıtma suyu işletme sınır sıcaklığı	WTOL	65	°C
Active mod dışındaki modlarda güç tüketimi				İlave ısıtıcı			
Kapalı mod	P_{OFF}	0.014	kW	Nominal ısı çıkışı (**)	p_{sup}	6.9	kW
Termostat-kapalı mod	P_{TO}	0.024	kW	Enerji giriş türü	Elektrik		
Bekleme modu	P_{SB}	0.014	kW				
Krank kasa ısıtıcı modu	P_{CK}	0.000	kW				
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su ısı pompaları için: Nominal hava akış hızı, dış mekan	-	6000	m ³ /h
İç/dış mekan ses güç seviyesi	L_{WA}	-/68	dB	Su veya tuzlu su ile çalışan ısı pompaları için: Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştirici	-	N/A	m ³ /h
Yıllık enerji tüketimi	Q_{HE}	9356	kWh				
Isı pompası kombi ısıtıcı için:							
Bildirilen yük profili	N/A			Su ısıtma enerji verimliliği	η_{wh}	N/A	%
Günlük elektrik tüketimi	Q_{elec}	N/A	kWh	Günlük yakıt tüketimi	Q_{fuel}	N/A	kWh
Yıllık elektrik tüketimi	AEC	N/A	kWh	Yıllık yakıt tüketimi	AFC	N/A	GJ
İletişim bilgileri	Kılavuzun arka kapağına bakınız.						
(*) Isı pompası mekan ısıtıcıları ve ısı pompası kombi ısıtıcıları için, nominal ısı çıkışı (P_{rated}) ısıtma tasarım yüküne ($P_{designh}$) eşittir ve ilave ısıtıcının (P_{sup}) nominal ısı çıkışı, ilave ısıtma kapasitesine ($sup(T_j)$) eşittir.							
(**) Eğer C_{dh} ölçümle belirlenmemişse, varsayılan bozunma katsayısı $C_{dh} = 0.9$ 'dur.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):				4kW(ısıtma 3kW);4kW			
Soğutucunun dış tarafındaki ısı değiştirici				Hava-su			
Soğutucunun iç tarafındaki ısı değiştirici				Su			
Tür:				Kompresör tahrikli buhar sıkıştırma			
Kompresör sürücüsü				Elektrik motoru			
ÖĞE							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	$P_{rated,c}$	4.6	kW	Mevsimlik mekan ısıtma enerji verimliliği	$H_{s,c}$	216	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T_j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T_j			
$T_j = + 35^{\circ}C$	P_{dc}	4.6	kW	$T_j = +35^{\circ}C$	EERd	3.38	-
$T_j = + 30^{\circ}C$	P_{dc}	3.5	kW	$T_j = +30^{\circ}C$	EERd	4.60	-
$T_j = + 25^{\circ}C$	P_{dc}	2.2	kW	$T_j = + 25^{\circ}C$	EERd	6.23	-
$T_j = + 20^{\circ}C$	P_{dc}	1.0	kW	$T_j = + 20^{\circ}C$	EERd	7.69	-
Soğutucunun bozunma katsayısı (*)				C_{dc} 0.9 kW			
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P_{OFF}	0.010	kW	Krank kasa ısıtıcı modu	P_{ck}	0.000	KW
Termostat kapalı modu	P_{TO}	0.010	kW	Bekleme modu	P_{SB}	0.010	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	2600	m ³ /h
Ses güç seviyesi, iç/dış mekan	L_{WA}	-/56	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m ³ /h
Azot oksit emisyonları (uygulanabilirse)	$NO_x(**)$	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Düşük sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C_{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):	4kW(ısıtma 3kW);4kW						
Soğutucunun dış tarafındaki ısı değiştirici	Hava-su						
Soğutucunun iç tarafındaki ısı değiştirici	Su						
Tür:	Kompresör tahrikli buhar sıkıştırma						
Kompresör sürücüsü	Elektrik motoru						
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated.c	4.5	kW	Mevsimlik mekan ısıtma enerji verimliliği	H _{s.c}	305	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T _j	Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T _j						
T _j = + 35°C	P _{dc}	4.5	kW	T _j =+35°C	EERd	5.64	-
T _j = + 30°C	P _{dc}	3.4	kW	T _j = +30°C	EERd	7.47	-
T _j = + 25°C	P _{dc}	2.3	kW	T _j = + 25°C	EERd	8.97	-
T _j = + 20°C	P _{dc}	1.0	kW	T _j = + 20°C	EERd	8.81	-
Soğutucunun bozunma katsayısı (*)	C _{dc}	0.9	kW				
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P _{OFF}	0.010	kW	Krank kasa ısıtıcı modu	P _{CK}	0.000	KW
Termostat kapalı modu	P _{TO}	0.010	kW	Bekleme modu	P _{SB}	0.010	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	2600	m ³ /h
Ses güç seviyesi, iç/dış mekan	L _{WA}	-/56	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m ³ /h
Azot oksit emisyonları (uygulanabilirse)	NO _x (**)	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Orta sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C _{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):				6kW(ısıtma 3kW);6kW			
Soğutucunun dış tarafındaki ısı değiştirici				Hava-su			
Soğutucunun iç tarafındaki ısı değiştirici				Su			
Tür:				Kompresör tahrikli buhar sıkıştırma			
Kompresör sürücüsü				Elektrik motoru			
ÖĞE							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated.c	6.1	kW	Mevsimlik mekan ısıtma enerji verimliliği	H _{s.c}	207	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T _j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T _j			
T _j = + 35°C	P _{dc}	6.1	kW	T _j =+35°C	EERd	3.22	-
T _j = + 30°C	P _{dc}	4.7	kW	T _j = +30°C	EERd	4.68	-
T _j = + 25°C	P _{dc}	2.8	kW	T _j = + 25°C	EERd	6.25	-
T _j = + 20°C	P _{dc}	1.2	kW	T _j = + 20°C	EERd	6.07	-
Soğutucunun bozunma katsayısı (*)				C _{dc} 0.9 kW			
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P _{OFF}	0.010	kW	Krank kasa ısıtıcı modu	P _{CK}	0.000	KW
Termostat kapalı modu	P _{TO}	0.010	kW	Bekleme modu	P _{SB}	0.010	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	2800	m ³ /h
Ses güç seviyesi, iç/dış mekan	L _{WA}	-/59	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m ³ /h
Azot oksit emisyonları (uygulanabilirse)	NO _x (**)	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Düşük sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C _{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):				6kW(ısıtma 3kW);6kW			
Soğutucunun dış tarafındaki ısı değiştirici				Hava-su			
Soğutucunun iç tarafındaki ısı değiştirici				Su			
Tür:				Kompresör tahrikli buhar sıkıştırma			
Kompresör sürücüsü				Elektrik motoru			
ÖĞE							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	Prated.c	6.1	kW	Mevsimlik mekan ısıtma enerji verimliliği	H _{s.c}	319	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T _j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T _j			
T _j = + 35°C	P _{dc}	6.1	kW	T _j =+35°C	EERd	5.19	-
T _j = + 30°C	P _{dc}	4.4	kW	T _j = +30°C	EERd	7.22	-
T _j = + 25°C	P _{dc}	2.9	kW	T _j = + 25°C	EERd	10.09	-
T _j = + 20°C	P _{dc}	1.3	kW	T _j = + 20°C	EERd	8.82	-
Soğutucunun bozunma katsayısı (*)				C _{dc} 0.9 kW			
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P _{OFF}	0.010	kW	Krank kasa ısıtıcı modu	P _{CK}	0.000	KW
Termostat kapalı modu	P _{TO}	0.010	kW	Bekleme modu	P _{SB}	0.010	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	2800	m ³ /h
Ses güç seviyesi, iç/dış mekan	L _{WA}	-/59	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m ³ /h
Azot oksit emisyonları (uygulanabilirse)	NO _x (**)	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Orta sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C _{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):				8kW(ısıtma 3kW);8kW			
Soğutucunun dış tarafındaki ısı değiştirici				Hava-su			
Soğutucunun iç tarafındaki ısı değiştirici				Su			
Tür:				Kompresör tahrikli buhar sıkıştırma			
Kompresör sürücüsü				Elektrik motoru			
ÖGE							
ÖGE	Sembol	DEĞER	BİRİM	ÖGE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	$P_{rated,c}$	7	kW	Mevsimlik mekan ısıtma enerji verimliliği	$H_{s,c}$	214	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T_j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T_j			
$T_j = + 35^{\circ}C$	P_{dc}	7.0	kW	$T_j = +35^{\circ}C$	EER_d	3.38	-
$T_j = + 30^{\circ}C$	P_{dc}	5.7	kW	$T_j = +30^{\circ}C$	EER_d	4.60	-
$T_j = + 25^{\circ}C$	P_{dc}	3.7	kW	$T_j = + 25^{\circ}C$	EER_d	6.23	-
$T_j = + 20^{\circ}C$	P_{dc}	1.7	kW	$T_j = + 20^{\circ}C$	EER_d	7.69	-
Soğutucunun bozunma katsayısı (*)				C_{dc} 0.9 kW			
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P_{OFF}	0.014	kW	Krank kasa ısıtıcı modu	P_{CK}	0.000	KW
Termostat kapalı modu	P_{TO}	0.024	kW	Bekleme modu	P_{SB}	0.014	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	4000	m ³ /h
Ses güç seviyesi, iç/dış mekan	L_{WA}	-/60	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m ³ /h
Azot oksit emisyonları (uygulanabilirse)	$NO_x(**)$	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Düşük sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C_{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):				8kW(ısıtma 3kW);8kW			
Soğutucunun dış tarafındaki ısı değiştirici				Hava-su			
Soğutucunun iç tarafındaki ısı değiştirici				Su			
Tür:				Kompresör tahrikli buhar sıkıştırma			
Kompresör sürücüsü				Elektrik motoru			
ÖĞE							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	$P_{rated,c}$	8	kW	Mevsimlik mekan ısıtma enerji verimliliği	$H_{s,c}$	318	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T_j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T_j			
$T_j = +35^{\circ}C$	P_{dc}	8.0	kW	$T_j = +35^{\circ}C$	EER_d	4.95	-
$T_j = +30^{\circ}C$	P_{dc}	6.4	kW	$T_j = +30^{\circ}C$	EER_d	6.61	-
$T_j = +25^{\circ}C$	P_{dc}	4.3	kW	$T_j = +25^{\circ}C$	EER_d	9.06	-
$T_j = +20^{\circ}C$	P_{dc}	1.8	kW	$T_j = +20^{\circ}C$	EER_d	13.14	-
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P_{OFF}	0.014	kW	Krank kasa ısıtıcı modu	P_{CK}	0.000	KW
Termostat kapalı modu	P_{TO}	0.024	kW	Bekleme modu	P_{SB}	0.014	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	4000	m ³ /h
Ses güç seviyesi, iç/dış mekan	L_{WA}	-/60	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m ³ /h
Azot oksit emisyonları (uygulanabilirse)	$NO_x(**)$	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Orta sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C_{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):				10kW(ısıtma 3kW);10kW			
Soğutucunun dış tarafındaki ısı değiştirici				Hava-su			
Soğutucunun iç tarafındaki ısı değiştirici				Su			
Tür:				Kompresör tahrikli buhar sıkıştırma			
Kompresör sürücüsü				Elektrik motoru			
ÖGE							
ÖGE	Sembol	DEĞER	BİRİM	ÖGE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	$P_{rated,c}$	8	kW	Mevsimlik mekan ısıtma enerji verimliliği	$H_{s,c}$	212	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T_j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T_j			
$T_j = +35^{\circ}C$	P_{dc}	8.1	kW	$T_j = +35^{\circ}C$	EER_d	3.16	-
$T_j = +30^{\circ}C$	P_{dc}	6.6	kW	$T_j = +30^{\circ}C$	EER_d	4.38	-
$T_j = +25^{\circ}C$	P_{dc}	4.3	kW	$T_j = +25^{\circ}C$	EER_d	6.18	-
$T_j = +20^{\circ}C$	P_{dc}	1.9	kW	$T_j = +20^{\circ}C$	EER_d	8.17	-
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P_{OFF}	0.014	kW	Krank kasa ısıtıcı modu	P_{CK}	0.000	KW
Termostat kapalı modu	P_{TO}	0.024	kW	Bekleme modu	P_{SB}	0.014	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	4500	m ³ /h
Ses güç seviyesi, iç/dış mekan	L_{WA}	-/61	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m ³ /h
Azot oksit emisyonları (uygulanabilirse)	$NO_x(**)$	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Düşük sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C_{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):				10kW(ısıtma 3kW);10kW			
Soğutucunun dış tarafındaki ısı değiştirici				Hava-su			
Soğutucunun iç tarafındaki ısı değiştirici				Su			
Tür:				Kompresör tahrikli buhar sıkıştırma			
Kompresör sürücüsü				Elektrik motoru			
ÖĞE							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	$P_{rated,c}$	10	kW	Mevsimlik mekan ısıtma enerji verimliliği	$H_{s,c}$	307	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T_j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T_j			
$T_j = +35^{\circ}C$	P_{dc}	9.5	kW	$T_j = +35^{\circ}C$	EER_d	4.56	-
$T_j = +30^{\circ}C$	P_{dc}	7.7	kW	$T_j = +30^{\circ}C$	EER_d	6.33	-
$T_j = +25^{\circ}C$	P_{dc}	4.9	kW	$T_j = +25^{\circ}C$	EER_d	8.48	-
$T_j = +20^{\circ}C$	P_{dc}	2.3	kW	$T_j = +20^{\circ}C$	EER_d	13.19	-
Soğutucunun bozunma katsayısı (*)				C_{dc} 0.9 kW			
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P_{OFF}	0.014	kW	Krank kasa ısıtıcı modu	P_{CK}	0.000	KW
Termostat kapalı modu	P_{TO}	0.024	kW	Bekleme modu	P_{SB}	0.014	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	4500	m ³ /h
Ses güç seviyesi, iç/dış mekan	L_{WA}	-/61	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m ³ /h
Azot oksit emisyonları (uygulanabilirse)	$NO_x(**)$	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Orta sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C_{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):				10kW(ısıtma 3kW);10kW			
Soğutucunun dış tarafındaki ısı değiştirici				Hava-su			
Soğutucunun iç tarafındaki ısı değiştirici				Su			
Tür:				Kompresör tahrikli buhar sıkıştırma			
Kompresör sürücüsü				Elektrik motoru			
ÖĞE							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	$P_{rated,c}$	12	kW	Mevsimlik mekan ısıtma enerji verimliliği	$H_{s,c}$	201	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T_j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T_j			
$T_j = +35^{\circ}C$	P_{dc}	11.6	kW	$T_j = +35^{\circ}C$	EER_d	2.80	-
$T_j = +30^{\circ}C$	P_{dc}	8.7	kW	$T_j = +30^{\circ}C$	EER_d	4.34	-
$T_j = +25^{\circ}C$	P_{dc}	5.8	kW	$T_j = +25^{\circ}C$	EER_d	6.02	-
$T_j = +20^{\circ}C$	P_{dc}	2.6	kW	$T_j = +20^{\circ}C$	EER_d	6.46	-
Soğutucunun bozunma katsayısı (*)				C_{dc} 0.9 kW			
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P_{OFF}	0.020	kW	Krank kasa ısıtıcı modu	P_{CK}	0.000	KW
Termostat kapalı modu	P_{TO}	0.010	kW	Bekleme modu	P_{SB}	0.020	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	5000	m ³ /h
Ses güç seviyesi, iç/dış mekan	L_{WA}	-/64	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m ³ /h
Azot oksit emisyonları (uygulanabilirse)	$NO_x(**)$	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Düşük sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C_{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):				12kW(ısıtma 3kW);12kW			
Soğutucunun dış tarafındaki ısı değiştirici				Hava-su			
Soğutucunun iç tarafındaki ısı değiştirici				Su			
Tür:				Kompresör tahrikli buhar sıkıştırma			
Kompresör sürücüsü				Elektrik motoru			
ÖĞE							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	$P_{rated,c}$	12	kW	Mevsimlik mekan ısıtma enerji verimliliği	$H_{s,c}$	295	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T_j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T_j			
$T_j = + 35^{\circ}C$	P_{dc}	12.0	kW	$T_j = +35^{\circ}C$	EER_d	3.96	-
$T_j = + 30^{\circ}C$	P_{dc}	9.3	kW	$T_j = +30^{\circ}C$	EER_d	6.16	-
$T_j = + 25^{\circ}C$	P_{dc}	5.6	kW	$T_j = + 25^{\circ}C$	EER_d	9.03	-
$T_j = + 20^{\circ}C$	P_{dc}	3.5	kW	$T_j = + 20^{\circ}C$	EER_d	10.04	-
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P_{OFF}	0.020	kW	Krank kasa ısıtıcı modu	P_{CK}	0.000	KW
Termostat kapalı modu	P_{TO}	0.010	kW	Bekleme modu	P_{SB}	0.020	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	5000	m ³ /h
Ses güç seviyesi, iç/dış mekan	L_{WA}	-/64	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m ³ /h
Azot oksit emisyonları (uygulanabilirse)	$NO_x(**)$	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Orta sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C_{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):				14kW(ısıtma 3kW);14kW			
Soğutucunun dış tarafındaki ısı değiştirici				Hava-su			
Soğutucunun iç tarafındaki ısı değiştirici				Su			
Tür:				Kompresör tahrikli buhar sıkıştırma			
Kompresör sürücüsü				Elektrik motoru			
ÖGE							
ÖGE	Sembol	DEĞER	BİRİM	ÖGE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	$P_{rated,c}$	13	kW	Mevsimlik mekan ısıtma enerji verimliliği	$H_{s,c}$	200	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T_j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T_j			
$T_j = +35^{\circ}C$	P_{dc}	12.7	kW	$T_j = +35^{\circ}C$	EER_d	2.59	-
$T_j = +30^{\circ}C$	P_{dc}	9.5	kW	$T_j = +30^{\circ}C$	EER_d	4.33	-
$T_j = +25^{\circ}C$	P_{dc}	6.3	kW	$T_j = +25^{\circ}C$	EER_d	6.08	-
$T_j = +20^{\circ}C$	P_{dc}	3.0	kW	$T_j = +20^{\circ}C$	EER_d	6.64	-
Soğutucunun bozunma katsayısı (*)				C_{dc} 0.9 kW			
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P_{OFF}	0.020	kW	Krank kasa ısıtıcı modu	P_{CK}	0.000	KW
Termostat kapalı modu	P_{TO}	0.010	kW	Bekleme modu	P_{SB}	0.020	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	5500	m ³ /h
Ses güç seviyesi, iç/dış mekan	L_{WA}	-/66	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m ³ /h
Azot oksit emisyonları (uygulanabilirse)	$NO_x(**)$	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Düşük sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C_{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):				14kW(ısıtma 3kW);14kW			
Soğutucunun dış tarafındaki ısı değiştirici				Hava-su			
Soğutucunun iç tarafındaki ısı değiştirici				Su			
Tür:				Kompresör tahrikli buhar sıkıştırma			
Kompresör sürücüsü				Elektrik motoru			
ÖĞE							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	$P_{rated,c}$	14	kW	Mevsimlik mekan ısıtma enerji verimliliği	$H_{s,c}$	281	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T_j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T_j			
$T_j = +35^{\circ}C$	P_{dc}	13.6	kW	$T_j = +35^{\circ}C$	EER_d	3.73	-
$T_j = +30^{\circ}C$	P_{dc}	10.4	kW	$T_j = +30^{\circ}C$	EER_d	5.75	-
$T_j = +25^{\circ}C$	P_{dc}	6.6	kW	$T_j = +25^{\circ}C$	EER_d	8.58	-
$T_j = +20^{\circ}C$	P_{dc}	3.5	kW	$T_j = +20^{\circ}C$	EER_d	9.96	-
Soğutucunun bozunma katsayısı (*)				C_{dc} 0.9 kW			
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P_{OFF}	0.020	kW	Krank kasa ısıtıcı modu	P_{CK}	0.000	KW
Termostat kapalı modu	P_{TO}	0.010	kW	Bekleme modu	P_{SB}	0.020	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	5500	m ³ /h
Ses güç seviyesi, iç/dış mekan	L_{WA}	-/66	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m ³ /h
Azot oksit emisyonları (uygulanabilirse)	$NO_x(**)$	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Orta sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C_{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):				16kW(ısıtma 3kW);16kW			
Soğutucunun dış tarafındaki ısı değiştirici				Hava-su			
Soğutucunun iç tarafındaki ısı değiştirici				Su			
Tür:				Kompresör tahrikli buhar sıkıştırma			
Kompresör sürücüsü				Elektrik motoru			
ÖĞE							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	$P_{rated,c}$	14	kW	Mevsimlik mekan ısıtma enerji verimliliği	$H_{s,c}$	192	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T_j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T_j			
$T_j = +35^{\circ}C$	P_{dc}	14.3	kW	$T_j = +35^{\circ}C$	EER_d	2.51	-
$T_j = +30^{\circ}C$	P_{dc}	10.6	kW	$T_j = +30^{\circ}C$	EER_d	3.70	-
$T_j = +25^{\circ}C$	P_{dc}	6.8	kW	$T_j = +25^{\circ}C$	EER_d	5.87	-
$T_j = +20^{\circ}C$	P_{dc}	3.5	kW	$T_j = +20^{\circ}C$	EER_d	7.23	-
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P_{OFF}	0.020	kW	Krank kasa ısıtıcı modu	P_{CK}	0.000	KW
Termostat kapalı modu	P_{TO}	0.010	kW	Bekleme modu	P_{SB}	0.020	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	6000	m ³ /h
Ses güç seviyesi, iç/dış mekan	L_{WA}	-/68	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m ³ /h
Azot oksit emisyonları (uygulanabilirse)	$NO_x(**)$	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Düşük sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C_{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):				16kW(ısıtma 3kW);16kW			
Soğutucunun dış tarafındaki ısı değiştirici				Hava-su			
Soğutucunun iç tarafındaki ısı değiştirici				Su			
Tür:				Kompresör tahrikli buhar sıkıştırma			
Kompresör sürücüsü				Elektrik motoru			
ÖĞE							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	$P_{rated,c}$	15	kW	Mevsimlik mekan ısıtma enerji verimliliği	$H_{s,c}$	280	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T_j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T_j			
$T_j = +35^{\circ}C$	P_{dc}	15.4	kW	$T_j = +35^{\circ}C$	EER_d	3.50	-
$T_j = +30^{\circ}C$	P_{dc}	11.6	kW	$T_j = +30^{\circ}C$	EER_d	5.45	-
$T_j = +25^{\circ}C$	P_{dc}	7.3	kW	$T_j = +25^{\circ}C$	EER_d	8.35	-
$T_j = +20^{\circ}C$	P_{dc}	4.6	kW	$T_j = +20^{\circ}C$	EER_d	11.68	-
Soğutucunun bozunma katsayısı (*)				C_{dc} 0.9 kW			
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P_{OFF}	0.020	kW	Krank kasa ısıtıcı modu	P_{CK}	0.000	KW
Termostat kapalı modu	P_{TO}	0.010	kW	Bekleme modu	P_{SB}	0.020	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	6000	m ³ /h
Ses güç seviyesi, iç/dış mekan	L_{WA}	-/68	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m ³ /h
Azot oksit emisyonları (uygulanabilirse)	$NO_x(**)$	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Orta sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C_{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):	3-PH 12kW(ısıtma 9kW);3-PH 12kW(ısıtma 6kW); 3-PH 12kW(ısıtma 3kW);3-PH 12kW						
Soğutucunun dış tarafındaki ısı değiştirici	Hava-su						
Soğutucunun iç tarafındaki ısı değiştirici	Su						
Tür:	Kompresör tahrikli buhar sıkıştırma						
Kompresör sürücüsü	Elektrik motoru						
ÖĞE							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	$P_{rated,c}$	12	kW	Mevsimlik mekan ısıtma enerji verimliliği	$H_{s,c}$	197	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T_j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T_j			
$T_j = +35^{\circ}C$	P_{dc}	11.7	kW	$T_j = +35^{\circ}C$	EER_d	2.64	-
$T_j = +30^{\circ}C$	P_{dc}	8.8	kW	$T_j = +30^{\circ}C$	EER_d	4.09	-
$T_j = +25^{\circ}C$	P_{dc}	5.9	kW	$T_j = +25^{\circ}C$	EER_d	5.58	-
$T_j = +20^{\circ}C$	P_{dc}	4.1	kW	$T_j = +20^{\circ}C$	EER_d	8.01	-
Soğutucunun bozunma katsayısı (*)	C_{dc}	0.9	kW				
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P_{OFF}	0.014	kW	Krank kasa ısıtıcı modu	P_{CK}	0.000	KW
Termostat kapalı modu	P_{TO}	0.024	kW	Bekleme modu	P_{SB}	0.014	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	5000	m^3/h
Ses güç seviyesi, iç/dış mekan	L_{WA}	-/64	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m^3/h
Azot oksit emisyonları (uygulanabilirse)	$NO_x(**)$	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Düşük sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C_{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):	3-PH 12kW(ısıtma 9kW);3-PH 12kW(ısıtma 6kW); 3-PH 12kW(ısıtma 3kW);3-PH 12kW						
Soğutucunun dış tarafındaki ısı değiştirici	Hava-su						
Soğutucunun iç tarafındaki ısı değiştirici	Su						
Tür:	Kompresör tahrikli buhar sıkıştırma						
Kompresör sürücüsü	Elektrik motoru						
ÖĞE							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	$P_{rated,c}$	12	kW	Mevsimlik mekan ısıtma enerji verimliliği	$H_{s,c}$	276	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T_j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T_j			
$T_j = + 35^{\circ}C$	P_{dc}	12.0	kW	$T_j = +35^{\circ}C$	EER_d	3.91	-
$T_j = + 30^{\circ}C$	P_{dc}	9.3	kW	$T_j = +30^{\circ}C$	EER_d	5.67	-
$T_j = + 25^{\circ}C$	P_{dc}	5.7	kW	$T_j = + 25^{\circ}C$	EER_d	7.98	-
$T_j = + 20^{\circ}C$	P_{dc}	5.1	kW	$T_j = + 20^{\circ}C$	EER_d	11.37	-
Soğutucunun bozunma katsayısı (*)	C_{dc}	0.9	kW				
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P_{OFF}	0.014	kW	Krank kasa ısıtıcı modu	P_{CK}	0.000	KW
Termostat kapalı modu	P_{TO}	0.024	kW	Bekleme modu	P_{SB}	0.014	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	5000	m^3/h
Ses güç seviyesi, iç/dış mekan	L_{WA}	-/64	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m^3/h
Azot oksit emisyonları (uygulanabilirse)	$NO_x(**)$	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Orta sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C_{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):				3-PH 14kW(ısıtma 9kW);3-PH 14kW(ısıtma 6kW); 3-PH 14kW(ısıtma 3kW);3-PH 14kW			
Soğutucunun dış tarafındaki ısı değiştirici				Hava-su			
Soğutucunun iç tarafındaki ısı değiştirici				Su			
Tür:				Kompresör tahrikli buhar sıkıştırma			
Kompresör sürücüsü				Elektrik motoru			
ÖĞE							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	$P_{rated,c}$	13	kW	Mevsimlik mekan ısıtma enerji verimliliği	$H_{s,c}$	188	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T_j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T_j			
$T_j = + 35^{\circ}C$	P_{dc}	12.7	kW	$T_j = +35^{\circ}C$	EER_d	2.36	-
$T_j = + 30^{\circ}C$	P_{dc}	9.5	kW	$T_j = +30^{\circ}C$	EER_d	4.07	-
$T_j = + 25^{\circ}C$	P_{dc}	6.1	kW	$T_j = + 25^{\circ}C$	EER_d	5.76	-
$T_j = + 20^{\circ}C$	P_{dc}	2.8	kW	$T_j = + 20^{\circ}C$	EER_d	6.05	-
Soğutucunun bozunma katsayısı (*)				C_{dc} 0.9 kW			
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P_{OFF}	0.014	kW	Krank kasa ısıtıcı modu	P_{CK}	0.000	KW
Termostat kapalı modu	P_{TO}	0.024	kW	Bekleme modu	P_{SB}	0.014	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	5000	m^3/h
Ses güç seviyesi, iç/dış mekan	L_{WA}	-/66	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m^3/h
Azot oksit emisyonları (uygulanabilirse)	$NO_x(**)$	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Düşük sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C_{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):				3-PH 14kW(ısıtma 9kW);3-PH 14kW(ısıtma 6kW); 3-PH 14kW(ısıtma 3kW);3-PH 14kW			
Soğutucunun dış tarafındaki ısı değiştirici				Hava-su			
Soğutucunun iç tarafındaki ısı değiştirici				Su			
Tür:				Kompresör tahrikli buhar sıkıştırma			
Kompresör sürücüsü				Elektrik motoru			
ÖĞE							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	$P_{rated,c}$	14	kW	Mevsimlik mekan ısıtma enerji verimliliği	$H_{s,c}$	269	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T_j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T_j			
$T_j = + 35^{\circ}C$	P_{dc}	13.5	kW	$T_j = +35^{\circ}C$	EER_d	3.72	-
$T_j = + 30^{\circ}C$	P_{dc}	10.3	kW	$T_j = +30^{\circ}C$	EER_d	5.51	-
$T_j = + 25^{\circ}C$	P_{dc}	6.5	kW	$T_j = + 25^{\circ}C$	EER_d	8.11	-
$T_j = + 20^{\circ}C$	P_{dc}	3.4	kW	$T_j = + 20^{\circ}C$	EER_d	9.49	-
Soğutucunun bozunma katsayısı (*)				C_{dc} 0.9 kW			
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P_{OFF}	0.014	kW	Krank kasa ısıtıcı modu	P_{CK}	0.000	KW
Termostat kapalı modu	P_{TO}	0.024	kW	Bekleme modu	P_{SB}	0.014	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	5500	m ³ /h
Ses güç seviyesi, iç/dış mekan	L_{WA}	-/66	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m ³ /h
Azot oksit emisyonları (uygulanabilirse)	$NO_x(**)$	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Orta sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C_{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):	3-PH 16kW(ısıtma 9kW);3-PH 16kW(ısıtma 6kW); 3-PH 16kW(ısıtma 3kW);3-PH 16kW						
Soğutucunun dış tarafındaki ısı değiştirici	Hava-su						
Soğutucunun iç tarafındaki ısı değiştirici	Su						
Tür:	Kompresör tahrikli buhar sıkıştırma						
Kompresör sürücüsü	Elektrik motoru						
ÖĞE							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	$P_{rated,c}$	14	kW	Mevsimlik mekan ısıtma enerji verimliliği	$H_{s,c}$	186	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T_j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T_j			
$T_j = + 35^{\circ}C$	P_{dc}	13.8	kW	$T_j = +35^{\circ}C$	EER_d	2.41	-
$T_j = + 30^{\circ}C$	P_{dc}	10.9	kW	$T_j = +30^{\circ}C$	EER_d	3.65	-
$T_j = + 25^{\circ}C$	P_{dc}	6.9	kW	$T_j = + 25^{\circ}C$	EER_d	5.60	-
$T_j = + 20^{\circ}C$	P_{dc}	3.6	kW	$T_j = + 20^{\circ}C$	EER_d	7.08	-
Soğutucunun bozunma katsayısı (*)	C_{dc}	0.9	kW				
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P_{OFF}	0.014	kW	Krank kasa ısıtıcı modu	P_{CK}	0.000	KW
Termostat kapalı modu	P_{TO}	0.024	kW	Bekleme modu	P_{SB}	0.014	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	6000	m^3/h
Ses güç seviyesi, iç/dış mekan	L_{WA}	-/68	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m^3/h
Azot oksit emisyonları (uygulanabilirse)	$NO_x(**)$	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Düşük sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C_{dc} ölçümle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

Konfor soğutucular için bilgi gereksinimleri

Model(s):				3-PH 16kW(ısıtma 9kW);3-PH 16kW(ısıtma 6kW); 3-PH 16kW(ısıtma 3kW);3-PH 16kW			
Soğutucunun dış tarafındaki ısı değiştirici				Hava-su			
Soğutucunun iç tarafındaki ısı değiştirici				Su			
Tür:				Kompresör tahrikli buhar sıkıştırma			
Kompresör sürücüsü				Elektrik motoru			
ÖĞE							
ÖĞE	Sembol	DEĞER	BİRİM	ÖĞE	Sembol	DEĞER	BİRİM
Nominal ısı çıkışı (*)	$P_{rated,c}$	16	kW	Mevsimlik mekan ısıtma enerji verimliliği	$H_{s,c}$	263	%
Bildirilen soğutma kapasitesi, belirli dış sıcaklıkta kısmi yük için T_j				Bildirilen soğutma için enerji verimlilik oranı, belirli dış sıcaklıkta kısmi yük için T_j			
$T_j = + 35^{\circ}C$	P_{dc}	15.5	kW	$T_j = +35^{\circ}C$	EER_d	3.35	-
$T_j = + 30^{\circ}C$	P_{dc}	11.6	kW	$T_j = +30^{\circ}C$	EER_d	4.90	-
$T_j = + 25^{\circ}C$	P_{dc}	7.5	kW	$T_j = + 25^{\circ}C$	EER_d	7.91	-
$T_j = + 20^{\circ}C$	P_{dc}	5.1	kW	$T_j = + 20^{\circ}C$	EER_d	11.29	-
Soğutucunun bozunma katsayısı (*)				C_{dc} 0.9 kW			
Aktif mod dışındaki modlarda güç tüketimi							
Kapalı mod	P_{OFF}	0.014	kW	Krank kasa ısıtıcı modu	P_{CK}	0.000	KW
Termostat kapalı modu	P_{TO}	0.024	kW	Bekleme modu	P_{SB}	0.014	KW
Diğer öğeler							
Kapasite kontrolü	değişken			Hava-su konfor soğutucuları için; hava akış hızı, dış mekan ölçülmüştür.	-	6000	m ³ /h
Ses güç seviyesi, iç/dış mekan	L_{WA}	-/68	dB	Su/tuzlu su ile çalışan soğutucular için; Nominal tuzlu su veya su akış hızı, dış mekan ısı değiştiricisi	-	N/A	m ³ /h
Azot oksit emisyonları (uygulanabilirse)	$NO_x(**)$	-	Mg/kwh giriş GCV				
Soğutucunun GWP değeri	-	675	Kg CO ₂ eq (100yıllar)				
Kullanılan standart değerlendirme koşulları	Orta sıcaklık uygulaması						
İletişim bilgileri	Kılavuzun arka kapağına bakınız						
(**) Eğer C_{dc} ölçümlerle belirlenmemişse, soğutucuların varsayılan bozunma katsayısı 0.9 olacaktır.							
(**) 26 Eylül 2018 tarihinden itibaren.							

TCL

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空气源热泵整体式三联供 技术参数手册 (共82页, 含2页空白页)

技术要求:

- 纸张边角应裁剪整齐; 印刷字迹清晰整洁、内容正确, 没有明显的拖墨和重影缺陷;
- 封面、封底为128g铜版纸彩色印刷; 封面中“TCL”商标颜色为PANTONE 186C;
- 内页材质为80g书写纸; 字体颜色为黑色K100;
- 未注公差按GB/T 1804C级;
- 版面尺寸为A4;
- 字体颜色为黑色K100;
- 装订: 骑马钉装订;
- 批量生产及换版必须送样确认后再生产;
- 封底右下角中“XX-XXXXXXXXXX(X.0)”中“XX”代表供应商简称, “XXXXXXXXXX”代表物料编码, “(X.0)”代表版本号”, 第一次为A版本, 版本号以此向后推。

C	GG. 2310-1594	王佳文	2023. 11. 01	4-16kW	85008-008578		
B	GG. 2307-0156	杜泽锋	2023. 07. 07				
A	GG. 2306-0162	杜泽锋	2023. 06. 12	技术参数手册	阶段标记	质量	比例
版次	更改文件号	签字					
设计	袁文昭	2023. 05. 19	工艺	陈国权	128g铜版纸+80g书写纸	1:1	广东TCL智能暖通设备有限公司
校对	杜泽锋		标准化	代音萍			
审核	罗镇雄		批准	梁勇超	第 1 张	共 82 张	



TECHNICAL DATA MANUAL

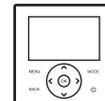
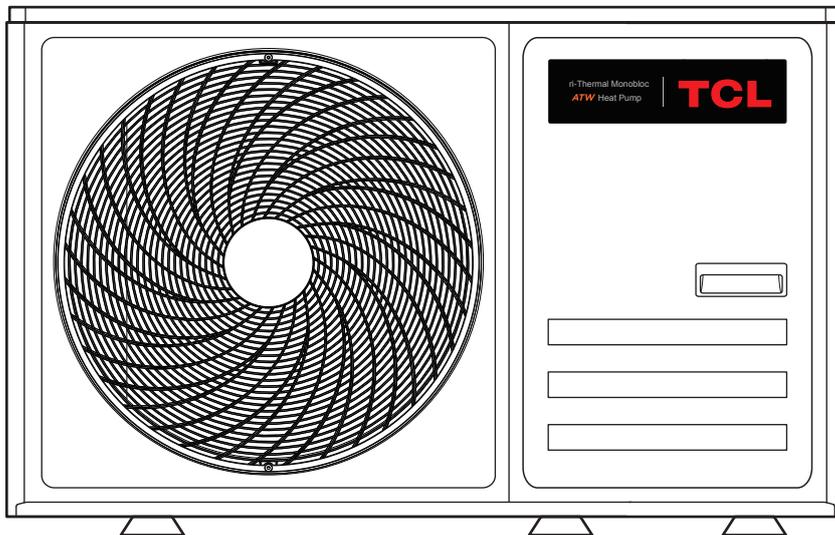
Air to Water Heat Pump System Tri-Thermal Monobloc

4kW
4kW(heating 3kW)
6kW
6kW(heating 3kW)
8kW
8kW(heating 3kW)
10kW
10kW(heating 3kW)
12kW
12kW(heating 3kW)
14kW
14kW(heating 3kW)
16kW
16kW(heating 3kW)

THML-4D/HBp-A
THMLd-4D/3HBp-A
THML-6D/HBp-A
THMLd-6D/3HBp-A
THML-8D/HBp-A
THMLd-8D/3HBp-A
THML-10D/HBp-A
THMLd-10D/3HBp-A
THML-12D/HBp-A
THMLd-12D/3HBp-A
THML-14D/HBp-A
THMLd-14D/3HBp-A
THML-16D/HBp-A
THMLd-16D/3HBp-A

3-PH 12kW
3-PH 12kW(heating 3kW)
3-PH 12kW(heating 6kW)
3-PH 12kW(heating 9kW)
3-PH 14kW
3-PH 14kW(heating 3kW)
3-PH 14kW(heating 6kW)
3-PH 14kW(heating 9kW)
3-PH 16kW
3-PH 16kW(heating 3kW)
3-PH 16kW(heating 6kW)
3-PH 16kW(heating 9kW)

THML-12S/HBp-A
THMLd-12S/3HBp-A
THMLd-12S/6HBp-A
THMLd-12S/9HBp-A
THML-14S/HBp-A
THMLd-14S/3HBp-A
THMLd-14S/6HBp-A
THMLd-14S/9HBp-A
THML-16S/HBp-A
THMLd-16S/3HBp-A
THMLd-16S/6HBp-A
THMLd-16S/9HBp-A



IMPORTANT NOTE:

Thank you very much for purchasing our product.
Before using your unit, please read this manual carefully and keep it for future reference.

Technical parameters

Model(s):	4kW(heating 3kW);4kW
Air-to-water heat pump	yes
Water-to-water heat pump	no
Brine-to-water heat pump	no
Low-temperature heat pump	no
Equipped with a supplementary heater	yes(for 4kW(heating 3kW)) no(for 4kW)
Heat pump combination heater	no
Declared climate condition:	average

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.7	kW	Seasonal space heating energy efficiency	η_s	182	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Prated	5.1	kW	Tj = - 7°C	COPd	2.82	-
Tj = + 2°C	Pdh	3.1	kW	Tj = + 2°C	COPd	4.37	-
Tj = + 7°C	Pdh	2.1	kW	Tj = + 7°C	COPd	6.57	-
Tj = + 12°C	Pdh	1.7	kW	Tj = + 12°C	COPd	8.83	-
Tj = bivalent temperature	Pdh	5.1	kW	Tj = bivalent temperature	COPd	2.82	-
Tj = operation limit temperature	Pdh	4.6	kW	Tj = operation limit temperature	COPd	2.60	-
For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	Pdh	N/A	kW	For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	COPd	N/A	-
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _{cyc}	N/A	-
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.010	kW	Rated heat output (**)	P _{sup}	1.1	kW
Thermostat-off mode	P _{TO}	0.010	kW	Type of energy input Electric			
Standby mode	P _{SB}	0.010	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2600	m ³ /h
Sound power level, indoors/ outdoors	L _{WA}	-/56	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q _{HE}	2559	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q _{elec}	N/A	kWh	Daily fuel consumption	Q _{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

Technical parameters

Model(s):	4kW(heating 3kW);4kW
Air-to-water heat pump	yes
Water-to-water heat pump	no
Brine-to-water heat pump	no
Low-temperature heat pump	no
Equipped with a supplementary heater	yes(for 4kW(heating 3kW)) no(for 4kW)
Heat pump combination heater	no
Declared climate condition:	warmer

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.3	kW	Seasonal space heating energy efficiency	η_s	264	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Prated	N/A	kW	Tj = - 7°C	COPd	N/A	-
Tj = + 2°C	Pdh	5.3	kW	Tj = + 2°C	COPd	3.39	-
Tj = + 7°C	Pdh	3.4	kW	Tj = + 7°C	COPd	5.81	-
Tj = + 12°C	Pdh	1.7	kW	Tj = + 12°C	COPd	8.62	-
Tj = bivalent temperature	Pdh	3.4	kW	Tj = bivalent temperature	COPd	5.81	-
Tj = operation limit temperature	Pdh	5.3	kW	Tj = operation limit temperature	COPd	3.39	-
For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	Pdh	N/A	kW	For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	COPd	N/A	-
Bivalent temperature	T _{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _{cyc}	N/A	-
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.010	kW	Rated heat output (**)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.010	kW	Type of energy input Electric			
Standby mode	P _{SB}	0.010	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2600	m ³ /h
Sound power level, indoors/ outdoors	L _{WA}	-/56	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q _{HE}	1065	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q _{elec}	N/A	kWh	Daily fuel consumption	Q _{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

Technical parameters

Model(s):	4kW(heating 3kW);4kW
Air-to-water heat pump	yes
Water-to-water heat pump	no
Brine-to-water heat pump	no
Low-temperature heat pump	no
Equipped with a supplementary heater	yes(for 4kW(heating 3kW)) no(for 4kW)
Heat pump combination heater	no
Declared climate condition:	colder

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.0	kW	Seasonal space heating energy efficiency	η_s	160	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Prated	3.0	kW	Tj = - 7°C	COPd	3.45	-
Tj = + 2°C	Pdh	1.9	kW	Tj = + 2°C	COPd	5.00	-
Tj = + 7°C	Pdh	1.2	kW	Tj = + 7°C	COPd	5.73	-
Tj = + 12°C	Pdh	1.6	kW	Tj = + 12°C	COPd	7.84	-
Tj = bivalent temperature	Pdh	4.1	kW	Tj = bivalent temperature	COPd	2.51	-
Tj = operation limit temperature	Pdh	3.3	kW	Tj = operation limit temperature	COPd	1.72	-
For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	Pdh	N/A	kW	For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	COPd	N/A	-
Bivalent temperature	T _{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _{cyc}	N/A	-
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.010	kW	Rated heat output (**)	P _{sup}	2.7	kW
Thermostat-off mode	P _{TO}	0.010	kW	Type of energy input Electric			
Standby mode	P _{SB}	0.010	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2600	m ³ /h
Sound power level, indoors/ outdoors	L _{WA}	-/56	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q _{HE}	3038	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q _{elec}	N/A	kWh	Daily fuel consumption	Q _{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

Technical parameters

Model(s):	4kW(heating 3kW);4kW
Air-to-water heat pump	yes
Water-to-water heat pump	no
Brine-to-water heat pump	no
Low-temperature heat pump	no
Equipped with a supplementary heater	yes(for 4kW(heating 3kW)) no(for 4kW)
Heat pump combination heater	no
Declared climate condition:	average

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4.7	kW	Seasonal space heating energy efficiency	η_s	131	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Prated	4.2	kW	Tj = - 7°C	COPd	2.14	-
Tj = + 2°C	Pdh	2.5	kW	Tj = + 2°C	COPd	3.26	-
Tj = + 7°C	Pdh	1.7	kW	Tj = + 7°C	COPd	4.44	-
Tj = + 12°C	Pdh	1.4	kW	Tj = + 12°C	COPd	5.54	-
Tj = bivalent temperature	Pdh	4.2	kW	Tj = bivalent temperature	COPd	2.14	-
Tj = operation limit temperature	Pdh	3.7	kW	Tj = operation limit temperature	COPd	1.72	-
For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	Pdh	N/A	kW	For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	COPd	N/A	-
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _{cyc}	N/A	-
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.010	kW	Rated heat output (**)	P _{sup}	1.0	kW
Thermostat-off mode	P _{TO}	0.010	kW	Type of energy input Electric			
Standby mode	P _{SB}	0.010	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2600	m ³ /h
Sound power level, indoors/ outdoors	L _{WA}	-/56	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q _{HE}	2898	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q _{elec}	N/A	kWh	Daily fuel consumption	Q _{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

Technical parameters

Model(s):	4kW(heating 3kW);4kW
Air-to-water heat pump	yes
Water-to-water heat pump	no
Brine-to-water heat pump	no
Low-temperature heat pump	no
Equipped with a supplementary heater	yes(for 4kW(heating 3kW)) no(for 4kW)
Heat pump combination heater	no
Declared climate condition:	warmer

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.0	kW	Seasonal space heating energy efficiency	η_s	165	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Prated	N/A	kW	Tj = - 7°C	COPd	N/A	-
Tj = + 2°C	Pdh	5.0	kW	Tj = + 2°C	COPd	2.31	-
Tj = + 7°C	Pdh	3.2	kW	Tj = + 7°C	COPd	3.68	-
Tj = + 12°C	Pdh	1.5	kW	Tj = + 12°C	COPd	5.21	-
Tj = bivalent temperature	Pdh	3.2	kW	Tj = bivalent temperature	COPd	3.68	-
Tj = operation limit temperature	Pdh	5.0	kW	Tj = operation limit temperature	COPd	2.31	-
For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	Pdh	N/A	kW	For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	COPd	N/A	-
Bivalent temperature	T _{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _{cyc}	N/A	-
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.010	kW	Rated heat output (**)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.010	kW	Type of energy input Electric			
Standby mode	P _{SB}	0.010	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2600	m ³ /h
Sound power level, indoors/ outdoors	L _{WA}	-/56	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q _{HE}	1604	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q _{elec}	N/A	kWh	Daily fuel consumption	Q _{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

Technical parameters

Model(s):	4kW(heating 3kW);4kW
Air-to-water heat pump	yes
Water-to-water heat pump	no
Brine-to-water heat pump	no
Low-temperature heat pump	no
Equipped with a supplementary heater	yes(for 4kW(heating 3kW)) no(for 4kW)
Heat pump combination heater	no
Declared climate condition:	colder

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	3.7	kW	Seasonal space heating energy efficiency	η_s	107	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Prated	2.3	kW	Tj = - 7°C	COPd	2.34	-
Tj = + 2°C	Pdh	1.4	kW	Tj = + 2°C	COPd	3.22	-
Tj = + 7°C	Pdh	1.6	kW	Tj = + 7°C	COPd	4.58	-
Tj = + 12°C	Pdh	1.5	kW	Tj = + 12°C	COPd	6.33	-
Tj = bivalent temperature	Pdh	3.0	kW	Tj = bivalent temperature	COPd	1.69	-
Tj = operation limit temperature	Pdh	2.5	kW	Tj = operation limit temperature	COPd	1.17	-
For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	Pdh	N/A	kW	For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	COPd	N/A	-
Bivalent temperature	T _{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _{cyc}	N/A	-
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.010	kW	Rated heat output (**)	P _{sup}	1.2	kW
Thermostat-off mode	P _{TO}	0.010	kW	Type of energy input Electric			
Standby mode	P _{SB}	0.010	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2600	m ³ /h
Sound power level, indoors/ outdoors	L _{WA}	-/56	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q _{HE}	3308	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q _{elec}	N/A	kWh	Daily fuel consumption	Q _{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

Technical parameters

Model(s):	6kW(heating 3kW);6kW
Air-to-water heat pump	yes
Water-to-water heat pump	no
Brine-to-water heat pump	no
Low-temperature heat pump	no
Equipped with a supplementary heater	yes(for 6kW(heating 3kW)) no(for 6kW)
Heat pump combination heater	no
Declared climate condition:	average

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.0	kW	Seasonal space heating energy efficiency	η_s	182.7	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Prated	6.2	kW	Tj = - 7°C	COPd	2.74	-
Tj = + 2°C	Pdh	3.6	kW	Tj = + 2°C	COPd	4.39	-
Tj = + 7°C	Pdh	2.5	kW	Tj = + 7°C	COPd	6.72	-
Tj = + 12°C	Pdh	1.4	kW	Tj = + 12°C	COPd	8.13	-
Tj = bivalent temperature	Pdh	6.2	kW	Tj = bivalent temperature	COPd	2.74	-
Tj = operation limit temperature	Pdh	6.0	kW	Tj = operation limit temperature	COPd	2.55	-
For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	Pdh	N/A	kW	For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	COPd	N/A	-
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _{cyc}	N/A	-
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.010	kW	Rated heat output (**)	P _{sup}	1.0	kW
Thermostat-off mode	P _{TO}	0.010	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.010	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m ³ /h
Sound power level, indoors/ outdoors	L _{WA}	-/59	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q _{HE}	3120	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q _{elec}	N/A	kWh	Daily fuel consumption	Q _{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

Technical parameters

Model(s):	6kW(heating 3kW);6kW
Air-to-water heat pump	yes
Water-to-water heat pump	no
Brine-to-water heat pump	no
Low-temperature heat pump	no
Equipped with a supplementary heater	yes(for 6kW(heating 3kW)) no(for 6kW)
Heat pump combination heater	no
Declared climate condition:	warmer

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η_s	264	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Prated	N/A	kW	Tj = - 7°C	COPd	N/A	-
Tj = + 2°C	Pdh	5.9	kW	Tj = + 2°C	COPd	3.49	-
Tj = + 7°C	Pdh	3.9	kW	Tj = + 7°C	COPd	5.71	-
Tj = + 12°C	Pdh	2.0	kW	Tj = + 12°C	COPd	8.78	-
Tj = bivalent temperature	Pdh	3.9	kW	Tj = bivalent temperature	COPd	5.71	-
Tj = operation limit temperature	Pdh	5.9	kW	Tj = operation limit temperature	COPd	3.49	-
For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	Pdh	N/A	kW	For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	COPd	N/A	-
Bivalent temperature	T _{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _{cyc}	N/A	-
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.010	kW	Rated heat output (**)	P _{sup}	0.1	kW
Thermostat-off mode	P _{TO}	0.010	kW	Type of energy input Electric			
Standby mode	P _{SB}	0.010	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m ³ /h
Sound power level, indoors/ outdoors	L _{WA}	-/59	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q _{HE}	1202	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q _{elec}	N/A	kWh	Daily fuel consumption	Q _{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

Technical parameters

Model(s):	6kW(heating 3kW);6kW
Air-to-water heat pump	yes
Water-to-water heat pump	no
Brine-to-water heat pump	no
Low-temperature heat pump	no
Equipped with a supplementary heater	yes(for 6kW(heating 3kW)) no(for 6kW)
Heat pump combination heater	no
Declared climate condition:	colder

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η_s	166	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Prated	3.6	kW	Tj = - 7°C	COPd	3.51	-
Tj = + 2°C	Pdh	2.2	kW	Tj = + 2°C	COPd	5.36	-
Tj = + 7°C	Pdh	1.5	kW	Tj = + 7°C	COPd	6.66	-
Tj = + 12°C	Pdh	1.6	kW	Tj = + 12°C	COPd	7.97	-
Tj = bivalent temperature	Pdh	4.9	kW	Tj = bivalent temperature	COPd	2.39	-
Tj = operation limit temperature	Pdh	3.6	kW	Tj = operation limit temperature	COPd	1.78	-
For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	Pdh	N/A	kW	For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	COPd	N/A	-
Bivalent temperature	T _{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _{cyc}	N/A	-
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.010	kW	Rated heat output (**)	P _{sup}	2.4	kW
Thermostat-off mode	P _{TO}	0.010	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.010	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m ³ /h
Sound power level, indoors/ outdoors	L _{WA}	-/59	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q _{HE}	3515	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q _{elec}	N/A	kWh	Daily fuel consumption	Q _{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

Technical parameters

Model(s):	6kW(heating 3kW);6kW
Air-to-water heat pump	yes
Water-to-water heat pump	no
Brine-to-water heat pump	no
Low-temperature heat pump	no
Equipped with a supplementary heater	yes(for 6kW(heating 3kW)) no(for 6kW)
Heat pump combination heater	no
Declared climate condition:	average

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η_s	137	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Prated	5.3	kW	Tj = - 7°C	COPd	2.12	-
Tj = + 2°C	Pdh	3.2	kW	Tj = + 2°C	COPd	3.43	-
Tj = + 7°C	Pdh	2.1	kW	Tj = + 7°C	COPd	4.63	-
Tj = + 12°C	Pdh	1.4	kW	Tj = + 12°C	COPd	5.70	-
Tj = bivalent temperature	Pdh	5.3	kW	Tj = bivalent temperature	COPd	2.12	-
Tj = operation limit temperature	Pdh	5.0	kW	Tj = operation limit temperature	COPd	1.81	-
For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	Pdh	N/A	kW	For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	COPd	N/A	-
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _{cyc}	N/A	-
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.010	kW	Rated heat output (**)	P _{sup}	1.0	kW
Thermostat-off mode	P _{TO}	0.010	kW	Type of energy input Electric			
Standby mode	P _{SB}	0.010	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m ³ /h
Sound power level, indoors/ outdoors	L _{WA}	-/59	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q _{HE}	3557	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q _{elec}	N/A	kWh	Daily fuel consumption	Q _{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

Technical parameters

Model(s):	6kW(heating 3kW);6kW
Air-to-water heat pump	yes
Water-to-water heat pump	no
Brine-to-water heat pump	no
Low-temperature heat pump	no
Equipped with a supplementary heater	yes(for 6kW(heating 3kW)) no(for 6kW)
Heat pump combination heater	no
Declared climate condition:	warmer

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.0	kW	Seasonal space heating energy efficiency	η_s	167	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Prated	N/A	kW	Tj = - 7°C	COPd	N/A	-
Tj = + 2°C	Pdh	5.0	kW	Tj = + 2°C	COPd	2.37	-
Tj = + 7°C	Pdh	3.2	kW	Tj = + 7°C	COPd	3.72	-
Tj = + 12°C	Pdh	1.6	kW	Tj = + 12°C	COPd	5.41	-
Tj = bivalent temperature	Pdh	3.2	kW	Tj = bivalent temperature	COPd	3.72	-
Tj = operation limit temperature	Pdh	5.0	kW	Tj = operation limit temperature	COPd	2.37	-
For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	Pdh	N/A	kW	For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	COPd	N/A	-
Bivalent temperature	T _{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _{cyc}	N/A	-
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.010	kW	Rated heat output (**)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.010	kW	Type of energy input Electric			
Standby mode	P _{SB}	0.010	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m ³ /h
Sound power level, indoors/ outdoors	L _{WA}	-/59	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q _{HE}	1580	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q _{elec}	N/A	kWh	Daily fuel consumption	Q _{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

Technical parameters

Model(s):	6kW(heating 3kW);6kW
Air-to-water heat pump	yes
Water-to-water heat pump	no
Brine-to-water heat pump	no
Low-temperature heat pump	no
Equipped with a supplementary heater	yes(for 6kW(heating 3kW)) no(for 6kW)
Heat pump combination heater	no
Declared climate condition:	colder

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.0	kW	Seasonal space heating energy efficiency	η_s	113	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Prated	3.1	kW	Tj = - 7°C	COPd	2.49	-
Tj = + 2°C	Pdh	1.8	kW	Tj = + 2°C	COPd	3.52	-
Tj = + 7°C	Pdh	1.2	kW	Tj = + 7°C	COPd	4.10	-
Tj = + 12°C	Pdh	1.4	kW	Tj = + 12°C	COPd	6.18	-
Tj = bivalent temperature	Pdh	4.0	kW	Tj = bivalent temperature	COPd	1.74	-
Tj = operation limit temperature	Pdh	2.5	kW	Tj = operation limit temperature	COPd	1.17	-
For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	Pdh	N/A	kW	For air-to-water heat pumps: Tj = - 15°C (if TOL < - 20°C)	COPd	N/A	-
Bivalent temperature	T _{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _{cyc}	N/A	-
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.010	kW	Rated heat output (**)	P _{sup}	2.5	kW
Thermostat-off mode	P _{TO}	0.010	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.010	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m ³ /h
Sound power level, indoors/ outdoors	L _{WA}	-/59	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q _{HE}	4204	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q _{elec}	N/A	kWh	Daily fuel consumption	Q _{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

Technical parameters

Model(s):	8kW(heating 3kW);8kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 8kW(heating 3kW)) no(for 8kW)
Heat pump combination heater:	no
Declared climate condition:	average

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	8	kW	Seasonal space heating energy efficiency	η_s	200	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	7.1	kW	$T_j = -7^{\circ}\text{C}$	COP_d	3.12	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	4.7	kW	$T_j = +2^{\circ}\text{C}$	COP_d	4.99	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	3.0	kW	$T_j = +7^{\circ}\text{C}$	COP_d	6.81	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.7	kW	$T_j = +12^{\circ}\text{C}$	COP_d	8.00	-
$T_j = \text{bivalent temperature}$	P_{dh}	7.1	kW	$T_j = \text{bivalent temperature}$	COP_d	3.12	-
$T_j = \text{operation limit temperature}$	P_{dh}	6.5	kW	$T_j = \text{operation limit temperature}$	COP_d	2.84	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	1.5	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/60	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	3276	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	8kW(heating 3kW);8kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 8kW(heating 3kW)) no(for 8kW)
Heat pump combination heater:	no
Declared climate condition:	warmer

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	8	kW	Seasonal space heating energy efficiency	η_s	278	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	7.7	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.82	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	5.0	kW	$T_j = +7^{\circ}\text{C}$	COP_d	6.12	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	2.6	kW	$T_j = +12^{\circ}\text{C}$	COP_d	9.15	-
$T_j = \text{bivalent temperature}$	P_{dh}	5.0	kW	$T_j = \text{bivalent temperature}$	COP_d	6.12	-
$T_j = \text{operation limit temperature}$	P_{dh}	7.7	kW	$T_j = \text{operation limit temperature}$	COP_d	3.82	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.3	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/60	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	1492	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	8kW(heating 3kW);8kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 8kW(heating 3kW)) no(for 8kW)
Heat pump combination heater:	no
Declared climate condition:	colder

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	7	kW	Seasonal space heating energy efficiency	η_s	167	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	4.4	kW	$T_j = -7^{\circ}\text{C}$	COP_d	3.59	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	2.6	kW	$T_j = +2^{\circ}\text{C}$	COP_d	5.30	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	1.6	kW	$T_j = +7^{\circ}\text{C}$	COP_d	5.98	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.9	kW	$T_j = +12^{\circ}\text{C}$	COP_d	8.42	-
$T_j = \text{bivalent temperature}$	P_{dh}	5.7	kW	$T_j = \text{bivalent temperature}$	COP_d	2.61	-
$T_j = \text{operation limit temperature}$	P_{dh}	4.0	kW	$T_j = \text{operation limit temperature}$	COP_d	1.93	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	3.0	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/60	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	4044	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	8kW(heating 3kW);8kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 8kW(heating 3kW)) no(for 8kW)
Heat pump combination heater:	no
Declared climate condition:	average

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	7	kW	Seasonal space heating energy efficiency	η_s	136	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	5.8	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.20	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	3.7	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.37	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	2.4	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.57	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.6	kW	$T_j = +12^{\circ}\text{C}$	COP_d	5.87	-
$T_j = \text{bivalent temperature}$	P_{dh}	5.8	kW	$T_j = \text{bivalent temperature}$	COP_d	2.20	-
$T_j = \text{operation limit temperature}$	P_{dh}	5.0	kW	$T_j = \text{operation limit temperature}$	COP_d	1.84	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	2.0	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/60	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	3937	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	8kW(heating 3kW);8kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 8kW(heating 3kW)) no(for 8kW)
Heat pump combination heater:	no
Declared climate condition:	warmer

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	8	kW	Seasonal space heating energy efficiency	η_s	171	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	7.4	kW	$T_j = +2^{\circ}\text{C}$	COP_d	2.52	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	4.9	kW	$T_j = +7^{\circ}\text{C}$	COP_d	3.60	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	2.2	kW	$T_j = +12^{\circ}\text{C}$	COP_d	5.80	-
$T_j = \text{bivalent temperature}$	P_{dh}	4.9	kW	$T_j = \text{bivalent temperature}$	COP_d	3.60	-
$T_j = \text{operation limit temperature}$	P_{dh}	7.4	kW	$T_j = \text{operation limit temperature}$	COP_d	2.52	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.6	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/60	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	2347	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	8kW(heating 3kW);8kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 8kW(heating 3kW)) no(for 8kW)
Heat pump combination heater:	no
Declared climate condition:	colder

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	6	kW	Seasonal space heating energy efficiency	η_s	115	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	3.8	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.48	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	2.2	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.59	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	1.4	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.08	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.5	kW	$T_j = +12^{\circ}\text{C}$	COP_d	6.01	-
$T_j = \text{bivalent temperature}$	P_{dh}	4.8	kW	$T_j = \text{bivalent temperature}$	COP_d	1.87	-
$T_j = \text{operation limit temperature}$	P_{dh}	3.2	kW	$T_j = \text{operation limit temperature}$	COP_d	1.31	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	2.8	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/60	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	4891	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	10kW(heating 3kW);10kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 10kW(heating 3kW)) no(for 10kW)
Heat pump combination heater:	no
Declared climate condition:	average

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	9	kW	Seasonal space heating energy efficiency	η_s	199	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	8.0	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.99	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	5.0	kW	$T_j = +2^{\circ}\text{C}$	COP_d	4.97	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	3.1	kW	$T_j = +7^{\circ}\text{C}$	COP_d	6.78	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	2.0	kW	$T_j = +12^{\circ}\text{C}$	COP_d	9.10	-
$T_j = \text{bivalent temperature}$	P_{dh}	8.0	kW	$T_j = \text{bivalent temperature}$	COP_d	2.99	-
$T_j = \text{operation limit temperature}$	P_{dh}	7.3	kW	$T_j = \text{operation limit temperature}$	COP_d	2.72	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	1.7	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4500	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/61	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	3702	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	10kW(heating 3kW);10kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 10kW(heating 3kW)) no(for 10kW)
Heat pump combination heater:	no
Declared climate condition:	warmer

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	9	kW	Seasonal space heating energy efficiency	η_s	268	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	8.4	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.67	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	5.5	kW	$T_j = +7^{\circ}\text{C}$	COP_d	5.99	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	2.4	kW	$T_j = +12^{\circ}\text{C}$	COP_d	8.73	-
$T_j = \text{bivalent temperature}$	P_{dh}	5.5	kW	$T_j = \text{bivalent temperature}$	COP_d	5.99	-
$T_j = \text{operation limit temperature}$	P_{dh}	8.4	kW	$T_j = \text{operation limit temperature}$	COP_d	3.67	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.6	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4500	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/61	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	1694	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	10kW(heating 3kW);10kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 10kW(heating 3kW)) no(for 10kW)
Heat pump combination heater:	no
Declared climate condition:	colder

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	8	kW	Seasonal space heating energy efficiency	η_s	170	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^\circ\text{C}$	P_{dh}	4.7	kW	$T_j = -7^\circ\text{C}$	COP_d	3.50	-
$T_j = +2^\circ\text{C}$	P_{dh}	3.0	kW	$T_j = +2^\circ\text{C}$	COP_d	5.51	-
$T_j = +7^\circ\text{C}$	P_{dh}	2.0	kW	$T_j = +7^\circ\text{C}$	COP_d	6.63	-
$T_j = +12^\circ\text{C}$	P_{dh}	1.9	kW	$T_j = +12^\circ\text{C}$	COP_d	8.58	-
$T_j = \text{bivalent temperature}$	P_{dh}	6.3	kW	$T_j = \text{bivalent temperature}$	COP_d	2.56	-
$T_j = \text{operation limit temperature}$	P_{dh}	4.6	kW	$T_j = \text{operation limit temperature}$	COP_d	1.99	-
For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	3.4	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4500	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/61	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	4417	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	10kW(heating 3kW);10kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 10kW(heating 3kW)) no(for 10kW)
Heat pump combination heater:	no
Declared climate condition:	average

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	8	kW	Seasonal space heating energy efficiency	η_s	138	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	6.8	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.10	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	4.2	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.44	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	2.6	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.74	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.8	kW	$T_j = +12^{\circ}\text{C}$	COP_d	6.22	-
$T_j = \text{bivalent temperature}$	P_{dh}	6.8	kW	$T_j = \text{bivalent temperature}$	COP_d	2.10	-
$T_j = \text{operation limit temperature}$	P_{dh}	5.2	kW	$T_j = \text{operation limit temperature}$	COP_d	1.83	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	2.8	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4500	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/61	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	4537	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	10kW(heating 3kW);10kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 10kW(heating 3kW)) no(for 10kW)
Heat pump combination heater:	no
Declared climate condition:	warmer

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	8	kW	Seasonal space heating energy efficiency	η_s	179	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^\circ\text{C}$	P_{dh}	N/A	kW	$T_j = -7^\circ\text{C}$	COP_d	N/A	-
$T_j = +2^\circ\text{C}$	P_{dh}	7.6	kW	$T_j = +2^\circ\text{C}$	COP_d	2.27	-
$T_j = +7^\circ\text{C}$	P_{dh}	5.2	kW	$T_j = +7^\circ\text{C}$	COP_d	3.92	-
$T_j = +12^\circ\text{C}$	P_{dh}	2.5	kW	$T_j = +12^\circ\text{C}$	COP_d	6.17	-
$T_j = \text{bivalent temperature}$	P_{dh}	5.2	kW	$T_j = \text{bivalent temperature}$	COP_d	3.92	-
$T_j = \text{operation limit temperature}$	P_{dh}	7.6	kW	$T_j = \text{operation limit temperature}$	COP_d	2.27	-
For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.4	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4500	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/61	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	2353	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	10kW(heating 3kW);10kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 10kW(heating 3kW)) no(for 10kW)
Heat pump combination heater:	no
Declared climate condition:	colder

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	7	kW	Seasonal space heating energy efficiency	η_s	116	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	4.1	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.53	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	2.6	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.51	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	1.7	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.52	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	1.7	kW	$T_j = +12^{\circ}\text{C}$	COP_d	6.51	-
$T_j = \text{bivalent temperature}$	P_{dh}	5.5	kW	$T_j = \text{bivalent temperature}$	COP_d	1.92	-
$T_j = \text{operation limit temperature}$	P_{dh}	2.8	kW	$T_j = \text{operation limit temperature}$	COP_d	1.24	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	4.2	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4500	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/61	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	5613	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	12kW(heating 3kW);12kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 12kW(heating 3kW)) no(for 12kW)
Heat pump combination heater:	no
Declared climate condition:	average

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	12	kW	Seasonal space heating energy efficiency	η_s	188	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	10,7	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.90	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	7.0	kW	$T_j = +2^{\circ}\text{C}$	COP_d	4.53	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	4.6	kW	$T_j = +7^{\circ}\text{C}$	COP_d	6.66	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.2	kW	$T_j = +12^{\circ}\text{C}$	COP_d	8.92	-
$T_j = \text{bivalent temperature}$	P_{dh}	10.7	kW	$T_j = \text{bivalent temperature}$	COP_d	2.90	-
$T_j = \text{operation limit temperature}$	P_{dh}	11.4	kW	$T_j = \text{operation limit temperature}$	COP_d	2.63	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if TOL < -20°C)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if TOL < -20°C)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.6	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5000	m ³ /h
Sound power level, indoors/ outdoors	L_{WA}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q_{HE}	5261	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	12kW(heating 3kW);12kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 12kW(heating 3kW)) no(for 12kW)
Heat pump combination heater:	no
Declared climate condition:	warmer

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	11	kW	Seasonal space heating energy efficiency	η_s	253	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^\circ\text{C}$	P_{dh}	N/A	kW	$T_j = -7^\circ\text{C}$	COP_d	N/A	-
$T_j = +2^\circ\text{C}$	P_{dh}	11.1	kW	$T_j = +2^\circ\text{C}$	COP_d	3.62	-
$T_j = +7^\circ\text{C}$	P_{dh}	7.1	kW	$T_j = +7^\circ\text{C}$	COP_d	5.64	-
$T_j = +12^\circ\text{C}$	P_{dh}	4.7	kW	$T_j = +12^\circ\text{C}$	COP_d	8.33	-
$T_j =$ bivalent temperature	P_{dh}	7.1	kW	$T_j =$ bivalent temperature	COP_d	5.64	-
$T_j =$ operation limit temperature	P_{dh}	11.1	kW	$T_j =$ operation limit temperature	COP_d	3.62	-
For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if TOL < -20°C)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if TOL < -20°C)	COP_d	N/A	-
Bivalent temperature	T_{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.0	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5000	m ³ /h
Sound power level, indoors/ outdoors	L_{WA}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q_{HE}	2326	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	12kW(heating 3kW);12kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 12kW(heating 3kW)) no(for 12kW)
Heat pump combination heater:	no
Declared climate condition:	colder

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	11	kW	Seasonal space heating energy efficiency	η_s	163	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	7.2	kW	$T_j = -7^{\circ}\text{C}$	COP_d	3.51	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	4.1	kW	$T_j = +2^{\circ}\text{C}$	COP_d	5.05	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	3.2	kW	$T_j = +7^{\circ}\text{C}$	COP_d	6.18	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	3.6	kW	$T_j = +12^{\circ}\text{C}$	COP_d	8.19	-
$T_j = \text{bivalent temperature}$	P_{dh}	9.3	kW	$T_j = \text{bivalent temperature}$	COP_d	2.59	-
$T_j = \text{operation limit temperature}$	P_{dh}	7.1	kW	$T_j = \text{operation limit temperature}$	COP_d	2.08	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	3.9	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	6746	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	12kW(heating 3kW);12kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 12kW(heating 3kW)) no(for 12kW)
Heat pump combination heater:	no
Declared climate condition:	average

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	12	kW	Seasonal space heating energy efficiency	η_s	136	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	10.7	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.12	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	6.6	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.29	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	4.4	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.74	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.0	kW	$T_j = +12^{\circ}\text{C}$	COP_d	7.28	-
$T_j = \text{bivalent temperature}$	P_{dh}	10.7	kW	$T_j = \text{bivalent temperature}$	COP_d	2.12	-
$T_j = \text{operation limit temperature}$	P_{dh}	9.9	kW	$T_j = \text{operation limit temperature}$	COP_d	1.82	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-7	$^{\circ}\text{C}$	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}\text{C}$
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	$^{\circ}\text{C}$
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	2.1	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	7224	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	12kW(heating 3kW);12kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 12kW(heating 3kW)) no(for 12kW)
Heat pump combination heater:	no
Declared climate condition:	warmer

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	12	kW	Seasonal space heating energy efficiency	η_s	174	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	12.1	kW	$T_j = +2^{\circ}\text{C}$	COP_d	2.27	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	8.0	kW	$T_j = +7^{\circ}\text{C}$	COP_d	3.76	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.3	kW	$T_j = +12^{\circ}\text{C}$	COP_d	5.95	-
$T_j = \text{bivalent temperature}$	P_{dh}	8.0	kW	$T_j = \text{bivalent temperature}$	COP_d	3.76	-
$T_j = \text{operation limit temperature}$	P_{dh}	12.1	kW	$T_j = \text{operation limit temperature}$	COP_d	2.27	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if TOL < -20°C)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if TOL < -20°C)	COP_d	N/A	-
Bivalent temperature	T_{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.0	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5000	m ³ /h
Sound power level, indoors/ outdoors	L_{WA}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q_{HE}	3761	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	12kW(heating 3kW);12kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 12kW(heating 3kW)) no(for 12kW)
Heat pump combination heater:	no
Declared climate condition:	colder

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	10	kW	Seasonal space heating energy efficiency	η_s	119	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	6.7	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.58	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	4.0	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.68	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	2.9	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.57	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	3.3	kW	$T_j = +12^{\circ}\text{C}$	COP_d	6.59	-
$T_j = \text{bivalent temperature}$	P_{dh}	8.5	kW	$T_j = \text{bivalent temperature}$	COP_d	1.84	-
$T_j = \text{operation limit temperature}$	P_{dh}	4.6	kW	$T_j = \text{operation limit temperature}$	COP_d	1.21	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-15	$^{\circ}\text{C}$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}\text{C}$
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	$^{\circ}\text{C}$
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	5.4	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	8470	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	14kW(heating 3kW);14kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 14kW(heating 3kW)) no(for 14kW)
Heat pump combination heater:	no
Declared climate condition:	average

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	14	kW	Seasonal space heating energy efficiency	η_s	182	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	12.4	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.80	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	7.5	kW	$T_j = +2^{\circ}\text{C}$	COP_d	4.38	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	5.2	kW	$T_j = +7^{\circ}\text{C}$	COP_d	6.53	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.5	kW	$T_j = +12^{\circ}\text{C}$	COP_d	8.58	-
$T_j = \text{bivalent temperature}$	P_{dh}	12.4	kW	$T_j = \text{bivalent temperature}$	COP_d	2.80	-
$T_j = \text{operation limit temperature}$	P_{dh}	12.8	kW	$T_j = \text{operation limit temperature}$	COP_d	2.51	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	1.2	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/66	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	6238	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	14kW(heating 3kW);14kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 14kW(heating 3kW)) no(for 14kW)
Heat pump combination heater:	no
Declared climate condition:	warmer

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	12	kW	Seasonal space heating energy efficiency	η_s	248	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	12.3	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.40	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	8.0	kW	$T_j = +7^{\circ}\text{C}$	COP_d	5.60	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.2	kW	$T_j = +12^{\circ}\text{C}$	COP_d	7.94	-
$T_j = \text{bivalent temperature}$	P_{dh}	8.0	kW	$T_j = \text{bivalent temperature}$	COP_d	5.60	-
$T_j = \text{operation limit temperature}$	P_{dh}	12.3	kW	$T_j = \text{operation limit temperature}$	COP_d	3.40	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if TOL < -20°C)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if TOL < -20°C)	COP_d	N/A	-
Bivalent temperature	T_{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.0	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m ³ /h
Sound power level, indoors/ outdoors	L_{WA}	-/66	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q_{HE}	2638	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	14kW(heating 3kW);14kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 14kW(heating 3kW)) no(for 14kW)
Heat pump combination heater:	no
Declared climate condition:	colder

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	13	kW	Seasonal space heating energy efficiency	η_s	156	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^\circ\text{C}$	P_{dh}	8.2	kW	$T_j = -7^\circ\text{C}$	COP_d	3.35	-
$T_j = +2^\circ\text{C}$	P_{dh}	4.6	kW	$T_j = +2^\circ\text{C}$	COP_d	4.72	-
$T_j = +7^\circ\text{C}$	P_{dh}	3.4	kW	$T_j = +7^\circ\text{C}$	COP_d	6.10	-
$T_j = +12^\circ\text{C}$	P_{dh}	3.8	kW	$T_j = +12^\circ\text{C}$	COP_d	8.00	-
$T_j = \text{bivalent temperature}$	P_{dh}	10.6	kW	$T_j = \text{bivalent temperature}$	COP_d	2.55	-
$T_j = \text{operation limit temperature}$	P_{dh}	7.9	kW	$T_j = \text{operation limit temperature}$	COP_d	2.10	-
For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if $TOL < -20^\circ\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	5.1	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/66	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	8111	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	14kW(heating 3kW);14kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 14kW(heating 3kW)) no(for 14kW)
Heat pump combination heater:	no
Declared climate condition:	average

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	12	kW	Seasonal space heating energy efficiency	η_s	134	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	10.9	kW	$T_j = -7^{\circ}\text{C}$	COP_d	1.99	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	6.9	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.26	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	4.5	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.79	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.0	kW	$T_j = +12^{\circ}\text{C}$	COP_d	7.25	-
$T_j = \text{bivalent temperature}$	P_{dh}	10.9	kW	$T_j = \text{bivalent temperature}$	COP_d	1.99	-
$T_j = \text{operation limit temperature}$	P_{dh}	10.3	kW	$T_j = \text{operation limit temperature}$	COP_d	1.81	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	1.7	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/66	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	7427	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	14kW(heating 3kW);14kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 14kW(heating 3kW)) no(for 14kW)
Heat pump combination heater:	no
Declared climate condition:	warmer

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	14	kW	Seasonal space heating energy efficiency	η_s	170	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	13.1	kW	$T_j = +2^{\circ}\text{C}$	COP_d	2.25	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	9.0	kW	$T_j = +7^{\circ}\text{C}$	COP_d	3.61	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.1	kW	$T_j = +12^{\circ}\text{C}$	COP_d	5.94	-
$T_j = \text{bivalent temperature}$	P_{dh}	9.0	kW	$T_j = \text{bivalent temperature}$	COP_d	3.61	-
$T_j = \text{operation limit temperature}$	P_{dh}	13.1	kW	$T_j = \text{operation limit temperature}$	COP_d	2.25	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	7	$^{\circ}\text{C}$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}\text{C}$
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	$^{\circ}\text{C}$
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.9	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/66	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	4323	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	14kW(heating 3kW);14kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 14kW(heating 3kW)) no(for 14kW)
Heat pump combination heater:	no
Declared climate condition:	colder

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	11	kW	Seasonal space heating energy efficiency	η_s	117	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	7.2	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.56	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	4.2	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.62	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	3.1	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.77	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	3.6	kW	$T_j = +12^{\circ}\text{C}$	COP_d	6.40	-
$T_j = \text{bivalent temperature}$	P_{dh}	8.9	kW	$T_j = \text{bivalent temperature}$	COP_d	1.82	-
$T_j = \text{operation limit temperature}$	P_{dh}	4.4	kW	$T_j = \text{operation limit temperature}$	COP_d	1.16	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-15	$^{\circ}\text{C}$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}\text{C}$
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	$^{\circ}\text{C}$
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	6.6	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/66	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	8975	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	16kW(heating 3kW);16kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 16kW(heating 3kW)) no(for 16kW)
Heat pump combination heater:	no
Declared climate condition:	average

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	15	kW	Seasonal space heating energy efficiency	η_s	179	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	13.4	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.66	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	8.0	kW	$T_j = +2^{\circ}\text{C}$	COP_d	4.33	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	5.4	kW	$T_j = +7^{\circ}\text{C}$	COP_d	6.48	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.6	kW	$T_j = +12^{\circ}\text{C}$	COP_d	8.96	-
$T_j = \text{bivalent temperature}$	P_{dh}	13.4	kW	$T_j = \text{bivalent temperature}$	COP_d	2.66	-
$T_j = \text{operation limit temperature}$	P_{dh}	13.4	kW	$T_j = \text{operation limit temperature}$	COP_d	2.46	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	1.6	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	6863	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	16kW(heating 3kW);16kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 16kW(heating 3kW)) no(for 16kW)
Heat pump combination heater:	no
Declared climate condition:	warmer

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	13	kW	Seasonal space heating energy efficiency	η_s	239	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	13.3	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.33	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	8.5	kW	$T_j = +7^{\circ}\text{C}$	COP_d	5.19	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.8	kW	$T_j = +12^{\circ}\text{C}$	COP_d	7.95	-
$T_j = \text{bivalent temperature}$	P_{dh}	8.5	kW	$T_j = \text{bivalent temperature}$	COP_d	5.19	-
$T_j = \text{operation limit temperature}$	P_{dh}	13.3	kW	$T_j = \text{operation limit temperature}$	COP_d	3.33	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.0	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	2934	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	16kW(heating 3kW);16kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 16kW(heating 3kW)) no(for 16kW)
Heat pump combination heater:	no
Declared climate condition:	colder

Parameters are declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	14	kW	Seasonal space heating energy efficiency	η_s	156	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	9.1	kW	$T_j = -7^{\circ}\text{C}$	COP_d	3.30	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	5.0	kW	$T_j = +2^{\circ}\text{C}$	COP_d	4.87	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	4.2	kW	$T_j = +7^{\circ}\text{C}$	COP_d	6.50	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	3.7	kW	$T_j = +12^{\circ}\text{C}$	COP_d	7.59	-
$T_j = \text{bivalent temperature}$	P_{dh}	11.3	kW	$T_j = \text{bivalent temperature}$	COP_d	2.28	-
$T_j = \text{operation limit temperature}$	P_{dh}	9.8	kW	$T_j = \text{operation limit temperature}$	COP_d	1.89	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	4.2	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	8618	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	16kW(heating 3kW);16kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 16kW(heating 3kW)) no(for 16kW)
Heat pump combination heater:	no
Declared climate condition:	average

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	13	kW	Seasonal space heating energy efficiency	η_s	136	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	11.3	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.04	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	7.3	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.31	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	4.8	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.81	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.0	kW	$T_j = +12^{\circ}\text{C}$	COP_d	7.35	-
$T_j = \text{bivalent temperature}$	P_{dh}	11.3	kW	$T_j = \text{bivalent temperature}$	COP_d	2.04	-
$T_j = \text{operation limit temperature}$	P_{dh}	11.2	kW	$T_j = \text{operation limit temperature}$	COP_d	1.72	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	1.8	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	7593	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	16kW(heating 3kW);16kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 16kW(heating 3kW)) no(for 16kW)
Heat pump combination heater:	no
Declared climate condition:	warmer

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	14	kW	Seasonal space heating energy efficiency	η_s	171	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	13.2	kW	$T_j = +2^{\circ}\text{C}$	COP_d	2.30	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	9.0	kW	$T_j = +7^{\circ}\text{C}$	COP_d	3.68	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.1	kW	$T_j = +12^{\circ}\text{C}$	COP_d	5.80	-
$T_j = \text{bivalent temperature}$	P_{dh}	9.0	kW	$T_j = \text{bivalent temperature}$	COP_d	3.68	-
$T_j = \text{operation limit temperature}$	P_{dh}	13.2	kW	$T_j = \text{operation limit temperature}$	COP_d	2.30	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.8	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	4329	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters

Model(s):	16kW(heating 3kW);16kW
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes(for 16kW(heating 3kW)) no(for 16kW)
Heat pump combination heater:	no
Declared climate condition:	colder

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	12	kW	Seasonal space heating energy efficiency	η_s	121	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7^{\circ}\text{C}$	P_{dh}	7.7	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.61	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	4.5	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.78	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	3.2	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.87	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	3.6	kW	$T_j = +12^{\circ}\text{C}$	COP_d	6.39	-
$T_j = \text{bivalent temperature}$	P_{dh}	9.6	kW	$T_j = \text{bivalent temperature}$	COP_d	1.84	-
$T_j = \text{operation limit temperature}$	P_{dh}	5.1	kW	$T_j = \text{operation limit temperature}$	COP_d	1.04	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-15	$^{\circ}\text{C}$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}\text{C}$
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	$^{\circ}\text{C}$
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	6.9	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.014	kW				
Crankcase heater mode	P_{CK}	0.000	kW				

Other items

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	9389	kWh				

For heat pump combination heater:

Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ

Contact details See the back cover of the manual

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

Technical parameters											
Model(s):				3-PH 12kW(heating 9kW);3-PH 12kW(heating 6kW); 3-PH 12kW(heating 3kW);3-PH 12kW							
Air-to-water heat pump:				yes							
Water-to-water heat pump:				no							
Brine-to-water heat pump:				no							
Low-temperature heat pump:				no							
Equipped with a supplementary heater:				yes(for 3-PH 12kW(heating 9kW);3-PH 12kW(heating 6kW);3-PH 12kW(heating 3kW)) no(for 3-PH 12kW)							
Heat pump combination heater:				no							
Declared climate condition:				average							
Parameters are declared for low-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	12	kW	Seasonal space heating energy efficiency	η_s	187	%	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7^{\circ}C$	P_{dh}	10.7	kW	$T_j = -7^{\circ}C$	COP_d	2.90	-	$T_j = -7^{\circ}C$	COP_d	4.53	-
$T_j = +2^{\circ}C$	P_{dh}	7.0	kW	$T_j = +2^{\circ}C$	COP_d	6.65	-	$T_j = +2^{\circ}C$	COP_d	8.92	-
$T_j = +7^{\circ}C$	P_{dh}	4.6	kW	$T_j = +7^{\circ}C$	COP_d	2.90	-	$T_j = +7^{\circ}C$	COP_d	2.63	-
$T_j = +12^{\circ}C$	P_{dh}	4.2	kW	$T_j = +12^{\circ}C$	COP_d	N/A	-	$T_j = +12^{\circ}C$	COP_d	N/A	-
$T_j =$ bivalent temperature	P_{dh}	10.7	kW	$T_j =$ bivalent temperature	COP_d	-10	°C	$T_j =$ bivalent temperature	COP_d	N/A	-
$T_j =$ operation limit temperature	P_{dh}	11.4	kW	$T_j =$ operation limit temperature	COP_d	65	°C	$T_j =$ operation limit temperature	COP_d	N/A	-
For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d			For air-to-water heat pumps: Operation limit temperature	TOL		
Bivalent temperature	T_{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL			Cycling interval efficiency	COP_{cyc}		
Cycling interval capacity for heating	P_{cych}	N/A	kW	Cycling interval efficiency	COP_{cyc}			Heating water operating limit temperature	WTOL		
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL			Supplementary heater			
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.6	kW	Type of energy input Electric			
Thermostat-off mode	P_{TO}	0.024	kW								
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5000	m ³ /h				
Sound power level, indoors/ outdoors	L_{WA}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h				
Annual energy consumption	Q_{HE}	5256	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%				
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh				
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ				
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Technical parameters											
Model(s):				3-PH 12kW(heating 9kW);3-PH 12kW(heating 6kW); 3-PH 12kW(heating 3kW);3-PH 12kW							
Air-to-water heat pump:				yes							
Water-to-water heat pump:				no							
Brine-to-water heat pump:				no							
Low-temperature heat pump:				no							
Equipped with a supplementary heater:				yes(for 3-PH 12kW(heating 9kW);3-PH 12kW(heating 6kW);3-PH 12kW(heating 3kW)) no(for 3-PH 12kW)							
Heat pump combination heater:				no							
Declared climate condition:				warmer							
Parameters are declared for low-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	11	kW	Seasonal space heating energy efficiency	η_s	253	%	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7^{\circ}C$	P_{dh}	N/A	kW	$T_j = -7^{\circ}C$	COP_d	N/A	-	$T_j = -7^{\circ}C$	COP_d	N/A	-
$T_j = +2^{\circ}C$	P_{dh}	11.1	kW	$T_j = +2^{\circ}C$	COP_d	3.62	-	$T_j = +2^{\circ}C$	COP_d	3.62	-
$T_j = +7^{\circ}C$	P_{dh}	7.2	kW	$T_j = +7^{\circ}C$	COP_d	5.64	-	$T_j = +7^{\circ}C$	COP_d	5.64	-
$T_j = +12^{\circ}C$	P_{dh}	4.7	kW	$T_j = +12^{\circ}C$	COP_d	8.34	-	$T_j = +12^{\circ}C$	COP_d	8.34	-
$T_j =$ bivalent temperature	P_{dh}	7.2	kW	$T_j =$ bivalent temperature	COP_d	5.64	-	$T_j =$ bivalent temperature	COP_d	5.64	-
$T_j =$ operation limit temperature	P_{dh}	11.1	kW	$T_j =$ operation limit temperature	COP_d	3.62	-	$T_j =$ operation limit temperature	COP_d	3.62	-
For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	7	$^{\circ}C$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}C$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}C$
Cycling interval capacity for heating	P_{cych}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	$^{\circ}C$	Heating water operating limit temperature	WTOL	65	$^{\circ}C$
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.0	kW	Rated heat output (**)	P_{sup}	0.0	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric						
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5000	m^3/h	For air-to-water heat pumps: Rated air flow rate, outdoors	-	5000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	2325	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%	Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ	Annual fuel consumption	AFC	N/A	GJ
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Technical parameters											
Model(s):		3-PH 12kW(heating 9kW);3-PH 12kW(heating 6kW); 3-PH 12kW(heating 3kW);3-PH 12kW									
Air-to-water heat pump:		yes									
Water-to-water heat pump:		no									
Brine-to-water heat pump:		no									
Low-temperature heat pump:		no									
Equipped with a supplementary heater:		yes(for 3-PH 12kW(heating 9kW);3-PH 12kW(heating 6kW);3-PH 12kW(heating 3kW)) no(for 3-PH 12kW)									
Heat pump combination heater:		no									
Declared climate condition:		colder									
Parameters are declared for low-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	11	kW	Seasonal space heating energy efficiency	η_s	163	%	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7^{\circ}C$	P_{dh}	7.2	kW	$T_j = -7^{\circ}C$	COP_d	3.51	-	$T_j = -7^{\circ}C$	COP_d	3.51	-
$T_j = +2^{\circ}C$	P_{dh}	4.2	kW	$T_j = +2^{\circ}C$	COP_d	5.06	-	$T_j = +2^{\circ}C$	COP_d	5.06	-
$T_j = +7^{\circ}C$	P_{dh}	3.2	kW	$T_j = +7^{\circ}C$	COP_d	6.20	-	$T_j = +7^{\circ}C$	COP_d	6.20	-
$T_j = +12^{\circ}C$	P_{dh}	3.6	kW	$T_j = +12^{\circ}C$	COP_d	8.19	-	$T_j = +12^{\circ}C$	COP_d	8.19	-
$T_j =$ bivalent temperature	P_{dh}	9.3	kW	$T_j =$ bivalent temperature	COP_d	2.59	-	$T_j =$ bivalent temperature	COP_d	2.59	-
$T_j =$ operation limit temperature	P_{dh}	7.1	kW	$T_j =$ operation limit temperature	COP_d	2.08	-	$T_j =$ operation limit temperature	COP_d	2.08	-
For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-15	$^{\circ}C$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}C$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}C$
Cycling interval capacity for heating	P_{cych}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	$^{\circ}C$	Heating water operating limit temperature	WTOL	65	$^{\circ}C$
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	3.9	kW	Rated heat output (**)	P_{sup}	3.9	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric						
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5000	m^3/h	For air-to-water heat pumps: Rated air flow rate, outdoors	-	5000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	6738	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%	Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ	Annual fuel consumption	AFC	N/A	GJ
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Technical parameters											
Model(s):				3-PH 12kW(heating 9kW);3-PH 12kW(heating 6kW); 3-PH 12kW(heating 3kW);3-PH 12kW							
Air-to-water heat pump:				yes							
Water-to-water heat pump:				no							
Brine-to-water heat pump:				no							
Low-temperature heat pump:				no							
Equipped with a supplementary heater:				yes(for 3-PH 12kW(heating 9kW);3-PH 12kW(heating 6kW);3-PH 12kW(heating 3kW)) no(for 3-PH 12kW)							
Heat pump combination heater:				no							
Declared climate condition:				average							
Parameters are declared for medium-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	12	kW	Seasonal space heating energy efficiency	η_s	138	%	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j											
$T_j = -7^{\circ}C$	P_{dh}	10.7	kW	$T_j = -7^{\circ}C$	COP_d	2.13	-				
$T_j = +2^{\circ}C$	P_{dh}	6.6	kW	$T_j = +2^{\circ}C$	COP_d	3.33	-				
$T_j = +7^{\circ}C$	P_{dh}	4.4	kW	$T_j = +7^{\circ}C$	COP_d	4.88	-				
$T_j = +12^{\circ}C$	P_{dh}	4.0	kW	$T_j = +12^{\circ}C$	COP_d	7.67	-				
$T_j =$ bivalent temperature	P_{dh}	10.7	kW	$T_j =$ bivalent temperature	COP_d	2.13	-				
$T_j =$ operation limit temperature	P_{dh}	10.0	kW	$T_j =$ operation limit temperature	COP_d	1.82	-				
For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-				
Bivalent temperature	T_{biv}	-7	$^{\circ}C$	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}C$				
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-				
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	$^{\circ}C$				
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	2.0	kW				
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input				Electric			
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5000	m^3/h				
Sound power level, indoors/ outdoors	L_{WA}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h				
Annual energy consumption	Q_{HE}	7085	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%				
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh				
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ				
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Technical parameters											
Model(s):		3-PH 12kW(heating 9kW);3-PH 12kW(heating 6kW); 3-PH 12kW(heating 3kW);3-PH 12kW									
Air-to-water heat pump:		yes									
Water-to-water heat pump:		no									
Brine-to-water heat pump:		no									
Low-temperature heat pump:		no									
Equipped with a supplementary heater:		yes(for 3-PH 12kW(heating 9kW);3-PH 12kW(heating 6kW);3-PH 12kW(heating 3kW)) no(for 3-PH 12kW)									
Heat pump combination heater:		no									
Declared climate condition:		warmer									
Parameters are declared for medium-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	12	kW	Seasonal space heating energy efficiency	η_s	175	%	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7^{\circ}C$	P_{dh}	N/A	kW	$T_j = -7^{\circ}C$	COP_d	N/A	-	$T_j = -7^{\circ}C$	COP_d	N/A	-
$T_j = +2^{\circ}C$	P_{dh}	12.1	kW	$T_j = +2^{\circ}C$	COP_d	2.27	-	$T_j = +2^{\circ}C$	COP_d	2.27	-
$T_j = +7^{\circ}C$	P_{dh}	8.0	kW	$T_j = +7^{\circ}C$	COP_d	3.85	-	$T_j = +7^{\circ}C$	COP_d	3.85	-
$T_j = +12^{\circ}C$	P_{dh}	4.3	kW	$T_j = +12^{\circ}C$	COP_d	5.95	-	$T_j = +12^{\circ}C$	COP_d	5.95	-
$T_j =$ bivalent temperature	P_{dh}	8.0	kW	$T_j =$ bivalent temperature	COP_d	3.85	-	$T_j =$ bivalent temperature	COP_d	3.85	-
$T_j =$ operation limit temperature	P_{dh}	12.1	kW	$T_j =$ operation limit temperature	COP_d	2.27	-	$T_j =$ operation limit temperature	COP_d	2.27	-
For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	7	$^{\circ}C$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}C$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}C$
Cycling interval capacity for heating	P_{cych}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	$^{\circ}C$	Heating water operating limit temperature	WTOL	65	$^{\circ}C$
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.0	kW	Rated heat output (**)	P_{sup}	0.0	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input Electric							
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5000	m^3/h	For air-to-water heat pumps: Rated air flow rate, outdoors	-	5000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	3733	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%	Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ	Annual fuel consumption	AFC	N/A	GJ
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Technical parameters											
Model(s):		3-PH 12kW(heating 9kW);3-PH 12kW(heating 6kW); 3-PH 12kW(heating 3kW);3-PH 12kW									
Air-to-water heat pump:		yes									
Water-to-water heat pump:		no									
Brine-to-water heat pump:		no									
Low-temperature heat pump:		no									
Equipped with a supplementary heater:		yes(for 3-PH 12kW(heating 9kW);3-PH 12kW(heating 6kW);3-PH 12kW(heating 3kW)) no(for 3-PH 12kW)									
Heat pump combination heater:		no									
Declared climate condition:		colder									
Parameters are declared for medium-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	10	kW	Seasonal space heating energy efficiency	η_s	119	%	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7^{\circ}C$	P_{dh}	6.7	kW	$T_j = -7^{\circ}C$	COP_d	2.58	-	$T_j = -7^{\circ}C$	COP_d	2.58	-
$T_j = +2^{\circ}C$	P_{dh}	4.0	kW	$T_j = +2^{\circ}C$	COP_d	3.68	-	$T_j = +2^{\circ}C$	COP_d	3.68	-
$T_j = +7^{\circ}C$	P_{dh}	2.9	kW	$T_j = +7^{\circ}C$	COP_d	4.57	-	$T_j = +7^{\circ}C$	COP_d	4.57	-
$T_j = +12^{\circ}C$	P_{dh}	3.3	kW	$T_j = +12^{\circ}C$	COP_d	6.59	-	$T_j = +12^{\circ}C$	COP_d	6.59	-
$T_j =$ bivalent temperature	P_{dh}	8.5	kW	$T_j =$ bivalent temperature	COP_d	1.89	-	$T_j =$ bivalent temperature	COP_d	1.89	-
$T_j =$ operation limit temperature	P_{dh}	4.7	kW	$T_j =$ operation limit temperature	COP_d	1.21	-	$T_j =$ operation limit temperature	COP_d	1.21	-
For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-15	$^{\circ}C$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}C$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}C$
Cycling interval capacity for heating	P_{cych}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	$^{\circ}C$	Heating water operating limit temperature	WTOL	65	$^{\circ}C$
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	5.3	kW	Rated heat output (**)	P_{sup}	5.3	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric						
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5000	m^3/h	For air-to-water heat pumps: Rated air flow rate, outdoors	-	5000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	8459	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%	Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ	Annual fuel consumption	AFC	N/A	GJ
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Technical parameters											
Model(s):		3-PH 14kW(heating 9kW);3-PH 14kW(heating 6kW); 3-PH 14kW(heating 3kW);3-PH 14kW									
Air-to-water heat pump:		yes									
Water-to-water heat pump:		no									
Brine-to-water heat pump:		no									
Low-temperature heat pump:		no									
Equipped with a supplementary heater:		yes(for 3-PH 14kW(heating 9kW);3-PH 14kW(heating 6kW);3-PH 14kW(heating 3kW)) no(for 3-PH 14kW)									
Heat pump combination heater:		no									
Declared climate condition:		average									
Parameters are declared for low-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	14	kW	Seasonal space heating energy efficiency	η_s	182	%	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7^{\circ}C$	P_{dh}	12.4	kW	$T_j = -7^{\circ}C$	COP_d	2.80	-	$T_j = -7^{\circ}C$	COP_d	2.80	-
$T_j = +2^{\circ}C$	P_{dh}	7.5	kW	$T_j = +2^{\circ}C$	COP_d	4.40	-	$T_j = +2^{\circ}C$	COP_d	4.40	-
$T_j = +7^{\circ}C$	P_{dh}	5.1	kW	$T_j = +7^{\circ}C$	COP_d	6.38	-	$T_j = +7^{\circ}C$	COP_d	6.38	-
$T_j = +12^{\circ}C$	P_{dh}	4.9	kW	$T_j = +12^{\circ}C$	COP_d	9.16	-	$T_j = +12^{\circ}C$	COP_d	9.16	-
$T_j =$ bivalent temperature	P_{dh}	12.4	kW	$T_j =$ bivalent temperature	COP_d	2.80	-	$T_j =$ bivalent temperature	COP_d	2.80	-
$T_j =$ operation limit temperature	P_{dh}	12.9	kW	$T_j =$ operation limit temperature	COP_d	2.63	-	$T_j =$ operation limit temperature	COP_d	2.63	-
For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-7	$^{\circ}C$	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}C$	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}C$
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	$^{\circ}C$	Heating water operating limit temperature	WTOL	65	$^{\circ}C$
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	1.1	kW	Rated heat output (**)	P_{sup}	1.1	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input Electric							
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m^3/h	For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/66	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	6237	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%	Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ	Annual fuel consumption	AFC	N/A	GJ
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Technical parameters											
Model(s):				3-PH 14kW(heating 9kW);3-PH 14kW(heating 6kW); 3-PH 14kW(heating 3kW);3-PH 14kW							
Air-to-water heat pump:				yes							
Water-to-water heat pump:				no							
Brine-to-water heat pump:				no							
Low-temperature heat pump:				no							
Equipped with a supplementary heater:				yes(for 3-PH 14kW(heating 9kW);3-PH 14kW(heating 6kW);3-PH 14kW(heating 3kW)) no(for 3-PH 14kW)							
Heat pump combination heater:				no							
Declared climate condition:				warmer							
Parameters are declared for low-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	12	kW	Seasonal space heating energy efficiency	η_s	248	%	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7^{\circ}\text{C}$	P_{dh}	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	12.3	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.41	-	$T_j = +2^{\circ}\text{C}$	COP_d	3.41	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	8.0	kW	$T_j = +7^{\circ}\text{C}$	COP_d	5.61	-	$T_j = +7^{\circ}\text{C}$	COP_d	5.61	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.2	kW	$T_j = +12^{\circ}\text{C}$	COP_d	7.94	-	$T_j = +12^{\circ}\text{C}$	COP_d	7.94	-
$T_j = \text{bivalent temperature}$	P_{dh}	8.0	kW	$T_j = \text{bivalent temperature}$	COP_d	5.61	-	$T_j = \text{bivalent temperature}$	COP_d	5.61	-
$T_j = \text{operation limit temperature}$	P_{dh}	12.3	kW	$T_j = \text{operation limit temperature}$	COP_d	3.41	-	$T_j = \text{operation limit temperature}$	COP_d	3.41	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	7	$^{\circ}\text{C}$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}\text{C}$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}\text{C}$
Cycling interval capacity for heating	P_{cych}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	$^{\circ}\text{C}$	Heating water operating limit temperature	WTOL	65	$^{\circ}\text{C}$
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.0	kW	Rated heat output (**)	P_{sup}	0.0	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric						
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m^3/h	For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/66	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	2638	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%	Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ	Annual fuel consumption	AFC	N/A	GJ
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Technical parameters											
Model(s):		3-PH 14kW(heating 9kW);3-PH 14kW(heating 6kW); 3-PH 14kW(heating 3kW);3-PH 14kW									
Air-to-water heat pump:		yes									
Water-to-water heat pump:		no									
Brine-to-water heat pump:		no									
Low-temperature heat pump:		no									
Equipped with a supplementary heater:		yes(for 3-PH 14kW(heating 9kW);3-PH 14kW(heating 6kW);3-PH 14kW(heating 3kW)) no(for 3-PH 14kW)									
Heat pump combination heater:		no									
Declared climate condition:		colder									
Parameters are declared for low-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	13	kW	Seasonal space heating energy efficiency	η_s	156	%	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7^{\circ}\text{C}$	P_{dh}	8.3	kW	$T_j = -7^{\circ}\text{C}$	COP_d	3.36	-	$T_j = -7^{\circ}\text{C}$	COP_d	3.36	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	4.7	kW	$T_j = +2^{\circ}\text{C}$	COP_d	4.73	-	$T_j = +2^{\circ}\text{C}$	COP_d	4.73	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	3.4	kW	$T_j = +7^{\circ}\text{C}$	COP_d	6.11	-	$T_j = +7^{\circ}\text{C}$	COP_d	6.11	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	3.8	kW	$T_j = +12^{\circ}\text{C}$	COP_d	7.98	-	$T_j = +12^{\circ}\text{C}$	COP_d	7.98	-
$T_j =$ bivalent temperature	P_{dh}	10.7	kW	$T_j =$ bivalent temperature	COP_d	2.61	-	$T_j =$ bivalent temperature	COP_d	2.61	-
$T_j =$ operation limit temperature	P_{dh}	7.9	kW	$T_j =$ operation limit temperature	COP_d	2.10	-	$T_j =$ operation limit temperature	COP_d	2.10	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-15	$^{\circ}\text{C}$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}\text{C}$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}\text{C}$
Cycling interval capacity for heating	P_{cych}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	$^{\circ}\text{C}$	Heating water operating limit temperature	WTOL	65	$^{\circ}\text{C}$
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	5.1	kW	Rated heat output (**)	P_{sup}	5.1	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input Electric							
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m^3/h	For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/66	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	8082	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%	Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ	Annual fuel consumption	AFC	N/A	GJ
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Technical parameters											
Model(s):		3-PH 14kW(heating 9kW);3-PH 14kW(heating 6kW); 3-PH 14kW(heating 3kW);3-PH 14kW									
Air-to-water heat pump:		yes									
Water-to-water heat pump:		no									
Brine-to-water heat pump:		no									
Low-temperature heat pump:		no									
Equipped with a supplementary heater:		yes(for 3-PH 14kW(heating 9kW);3-PH 14kW(heating 6kW);3-PH 14kW(heating 3kW)) no(for 3-PH 14kW)									
Heat pump combination heater:		no									
Declared climate condition:		average									
Parameters are declared for medium-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	12	kW	Seasonal space heating energy efficiency	η_s	135	%	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7^{\circ}\text{C}$	P_{dh}	10.9	kW	$T_j = -7^{\circ}\text{C}$	COP_d	2.03	-	$T_j = -7^{\circ}\text{C}$	COP_d	2.03	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	7.1	kW	$T_j = +2^{\circ}\text{C}$	COP_d	3.35	-	$T_j = +2^{\circ}\text{C}$	COP_d	3.35	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	4.8	kW	$T_j = +7^{\circ}\text{C}$	COP_d	4.67	-	$T_j = +7^{\circ}\text{C}$	COP_d	4.67	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.0	kW	$T_j = +12^{\circ}\text{C}$	COP_d	7.27	-	$T_j = +12^{\circ}\text{C}$	COP_d	7.27	-
$T_j = \text{bivalent temperature}$	P_{dh}	10.9	kW	$T_j = \text{bivalent temperature}$	COP_d	2.03	-	$T_j = \text{bivalent temperature}$	COP_d	2.03	-
$T_j = \text{operation limit temperature}$	P_{dh}	10.0	kW	$T_j = \text{operation limit temperature}$	COP_d	1.79	-	$T_j = \text{operation limit temperature}$	COP_d	1.79	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-7	$^{\circ}\text{C}$	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}\text{C}$	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}\text{C}$
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	$^{\circ}\text{C}$	Heating water operating limit temperature	WTOL	65	$^{\circ}\text{C}$
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	2.0	kW	Rated heat output (**)	P_{sup}	2.0	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input Electric							
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m^3/h	For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/66	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	7384	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%	Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ	Annual fuel consumption	AFC	N/A	GJ
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Technical parameters											
Model(s):		3-PH 14kW(heating 9kW);3-PH 14kW(heating 6kW); 3-PH 14kW(heating 3kW);3-PH 14kW									
Air-to-water heat pump:		yes									
Water-to-water heat pump:		no									
Brine-to-water heat pump:		no									
Low-temperature heat pump:		no									
Equipped with a supplementary heater:		yes(for 3-PH 14kW(heating 9kW);3-PH 14kW(heating 6kW);3-PH 14kW(heating 3kW)) no(for 3-PH 14kW)									
Heat pump combination heater:		no									
Declared climate condition:		warmer									
Parameters are declared for medium-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	14	kW	Seasonal space heating energy efficiency	η_s	170	%	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7^{\circ}\text{C}$	P_{dh}	N/A	kW	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-	$T_j = -7^{\circ}\text{C}$	COP_d	N/A	-
$T_j = +2^{\circ}\text{C}$	P_{dh}	13.1	kW	$T_j = +2^{\circ}\text{C}$	COP_d	2.25	-	$T_j = +2^{\circ}\text{C}$	COP_d	2.25	-
$T_j = +7^{\circ}\text{C}$	P_{dh}	9.0	kW	$T_j = +7^{\circ}\text{C}$	COP_d	3.61	-	$T_j = +7^{\circ}\text{C}$	COP_d	3.61	-
$T_j = +12^{\circ}\text{C}$	P_{dh}	4.1	kW	$T_j = +12^{\circ}\text{C}$	COP_d	5.94	-	$T_j = +12^{\circ}\text{C}$	COP_d	5.94	-
$T_j =$ bivalent temperature	P_{dh}	9.0	kW	$T_j =$ bivalent temperature	COP_d	3.61	-	$T_j =$ bivalent temperature	COP_d	3.61	-
$T_j =$ operation limit temperature	P_{dh}	13.1	kW	$T_j =$ operation limit temperature	COP_d	2.25	-	$T_j =$ operation limit temperature	COP_d	2.25	-
For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-	For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $\text{TOL} < -20^{\circ}\text{C}$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	7	$^{\circ}\text{C}$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}\text{C}$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}\text{C}$
Cycling interval capacity for heating	P_{cych}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	$^{\circ}\text{C}$	Heating water operating limit temperature	WTOL	65	$^{\circ}\text{C}$
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.9	kW	Rated heat output (**)	P_{sup}	0.9	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input Electric							
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m^3/h	For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/66	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	4320	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%	Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ	Annual fuel consumption	AFC	N/A	GJ
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Technical parameters											
Model(s):		3-PH 14kW(heating 9kW);3-PH 14kW(heating 6kW); 3-PH 14kW(heating 3kW);3-PH 14kW									
Air-to-water heat pump:		yes									
Water-to-water heat pump:		no									
Brine-to-water heat pump:		no									
Low-temperature heat pump:		no									
Equipped with a supplementary heater:		yes(for 3-PH 14kW(heating 9kW);3-PH 14kW(heating 6kW);3-PH 14kW(heating 3kW)) no(for 3-PH 14kW)									
Heat pump combination heater:		no									
Declared climate condition:		colder									
Parameters are declared for medium-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	11	kW	Seasonal space heating energy efficiency	η_s	117	%	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7^{\circ}C$	P_{dh}	7.2	kW	$T_j = -7^{\circ}C$	COP_d	2.56	-	$T_j = -7^{\circ}C$	COP_d	2.56	-
$T_j = +2^{\circ}C$	P_{dh}	4.3	kW	$T_j = +2^{\circ}C$	COP_d	3.62	-	$T_j = +2^{\circ}C$	COP_d	3.62	-
$T_j = +7^{\circ}C$	P_{dh}	3.1	kW	$T_j = +7^{\circ}C$	COP_d	4.77	-	$T_j = +7^{\circ}C$	COP_d	4.77	-
$T_j = +12^{\circ}C$	P_{dh}	3.6	kW	$T_j = +12^{\circ}C$	COP_d	6.40	-	$T_j = +12^{\circ}C$	COP_d	6.40	-
$T_j =$ bivalent temperature	P_{dh}	8.9	kW	$T_j =$ bivalent temperature	COP_d	1.82	-	$T_j =$ bivalent temperature	COP_d	1.82	-
$T_j =$ operation limit temperature	P_{dh}	4.4	kW	$T_j =$ operation limit temperature	COP_d	1.16	-	$T_j =$ operation limit temperature	COP_d	1.16	-
For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-15	$^{\circ}C$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}C$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}C$
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	$^{\circ}C$	Heating water operating limit temperature	WTOL	65	$^{\circ}C$
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	6.6	kW	Rated heat output (**)	P_{sup}	6.6	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input Electric							
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m^3/h	For air-to-water heat pumps: Rated air flow rate, outdoors	-	5500	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/66	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	8967	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%	Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ	Annual fuel consumption	AFC	N/A	GJ
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Technical parameters											
Model(s):		3-PH 16kW(heating 9kW);3-PH 16kW(heating 6kW); 3-PH 16kW(heating 3kW);3-PH 16kW									
Air-to-water heat pump:		yes									
Water-to-water heat pump:		no									
Brine-to-water heat pump:		no									
Low-temperature heat pump:		no									
Equipped with a supplementary heater:		yes(for 3-PH 16kW(heating 9kW);3-PH 16kW(heating 6kW);3-PH 16kW(heating 3kW)) no(for 3-PH 16kW)									
Heat pump combination heater:		no									
Declared climate condition:		average									
Parameters are declared for low-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	15	kW	Seasonal space heating energy efficiency	η_s	179	%	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7^{\circ}C$	P_{dh}	13.4	kW	$T_j = -7^{\circ}C$	COP_d	2.60	-	$T_j = -7^{\circ}C$	COP_d	2.60	-
$T_j = +2^{\circ}C$	P_{dh}	8.0	kW	$T_j = +2^{\circ}C$	COP_d	4.39	-	$T_j = +2^{\circ}C$	COP_d	4.39	-
$T_j = +7^{\circ}C$	P_{dh}	5.4	kW	$T_j = +7^{\circ}C$	COP_d	6.44	-	$T_j = +7^{\circ}C$	COP_d	6.44	-
$T_j = +12^{\circ}C$	P_{dh}	4.6	kW	$T_j = +12^{\circ}C$	COP_d	8.92	-	$T_j = +12^{\circ}C$	COP_d	8.92	-
$T_j =$ bivalent temperature	P_{dh}	13.4	kW	$T_j =$ bivalent temperature	COP_d	2.60	-	$T_j =$ bivalent temperature	COP_d	2.60	-
$T_j =$ operation limit temperature	P_{dh}	13.4	kW	$T_j =$ operation limit temperature	COP_d	2.44	-	$T_j =$ operation limit temperature	COP_d	2.44	-
For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P_{cych}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	1.6	kW	Rated heat output (**)	P_{sup}	1.6	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric						
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m ³ /h	For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m ³ /h
Sound power level, indoors/ outdoors	L_{WA}	-/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q_{HE}	6838	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%	Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ	Annual fuel consumption	AFC	N/A	GJ
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Technical parameters											
Model(s):				3-PH 16kW(heating 9kW);3-PH 16kW(heating 6kW); 3-PH 16kW(heating 3kW);3-PH 16kW							
Air-to-water heat pump:				yes							
Water-to-water heat pump:				no							
Brine-to-water heat pump:				no							
Low-temperature heat pump:				no							
Equipped with a supplementary heater:				yes(for 3-PH 16kW(heating 9kW);3-PH 16kW(heating 6kW);3-PH 16kW(heating 3kW)) no(for 3-PH 16kW)							
Heat pump combination heater:				no							
Declared climate condition:				warmer							
Parameters are declared for low-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	13	kW	Seasonal space heating energy efficiency	η_s	239	%	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7^{\circ}C$	P_{dh}	N/A	kW	$T_j = -7^{\circ}C$	COP_d	N/A	-	$T_j = -7^{\circ}C$	COP_d	N/A	-
$T_j = +2^{\circ}C$	P_{dh}	13.3	kW	$T_j = +2^{\circ}C$	COP_d	3.33	-	$T_j = +2^{\circ}C$	COP_d	3.33	-
$T_j = +7^{\circ}C$	P_{dh}	8.6	kW	$T_j = +7^{\circ}C$	COP_d	5.20	-	$T_j = +7^{\circ}C$	COP_d	5.20	-
$T_j = +12^{\circ}C$	P_{dh}	4.8	kW	$T_j = +12^{\circ}C$	COP_d	7.95	-	$T_j = +12^{\circ}C$	COP_d	7.95	-
$T_j =$ bivalent temperature	P_{dh}	8.6	kW	$T_j =$ bivalent temperature	COP_d	5.20	-	$T_j =$ bivalent temperature	COP_d	5.20	-
$T_j =$ operation limit temperature	P_{dh}	13.3	kW	$T_j =$ operation limit temperature	COP_d	3.33	-	$T_j =$ operation limit temperature	COP_d	3.33	-
For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P_{cych}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.0	kW	Rated heat output (**)	P_{sup}	0.0	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric						
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m ³ /h	For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m ³ /h
Sound power level, indoors/ outdoors	L_{WA}	-/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q_{HE}	2933	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%	Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ	Annual fuel consumption	AFC	N/A	GJ
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Technical parameters											
Model(s):				3-PH 16kW(heating 9kW);3-PH 16kW(heating 6kW); 3-PH 16kW(heating 3kW);3-PH 16kW							
Air-to-water heat pump:				yes							
Water-to-water heat pump:				no							
Brine-to-water heat pump:				no							
Low-temperature heat pump:				no							
Equipped with a supplementary heater:				yes(for 3-PH 16kW(heating 9kW);3-PH 16kW(heating 6kW);3-PH 16kW(heating 3kW)) no(for 3-PH 16kW)							
Heat pump combination heater:				no							
Declared climate condition:				colder							
Parameters are declared for low-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	14	kW	Seasonal space heating energy efficiency	η_s	156	%	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7^{\circ}C$	P_{dh}	9.1	kW	$T_j = -7^{\circ}C$	COP_d	3.32	-	$T_j = -7^{\circ}C$	COP_d	3.32	-
$T_j = +2^{\circ}C$	P_{dh}	5.0	kW	$T_j = +2^{\circ}C$	COP_d	4.88	-	$T_j = +2^{\circ}C$	COP_d	4.88	-
$T_j = +7^{\circ}C$	P_{dh}	4.2	kW	$T_j = +7^{\circ}C$	COP_d	6.50	-	$T_j = +7^{\circ}C$	COP_d	6.50	-
$T_j = +12^{\circ}C$	P_{dh}	3.7	kW	$T_j = +12^{\circ}C$	COP_d	7.59	-	$T_j = +12^{\circ}C$	COP_d	7.59	-
$T_j =$ bivalent temperature	P_{dh}	11.3	kW	$T_j =$ bivalent temperature	COP_d	2.28	-	$T_j =$ bivalent temperature	COP_d	2.28	-
$T_j =$ operation limit temperature	P_{dh}	9.8	kW	$T_j =$ operation limit temperature	COP_d	1.89	-	$T_j =$ operation limit temperature	COP_d	1.89	-
For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P_{cych}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	4.2	kW	Rated heat output (**)	P_{sup}	4.2	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric						
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m ³ /h	For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m ³ /h
Sound power level, indoors/ outdoors	L_{WA}	-/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q_{HE}	8597	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%	Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ	Annual fuel consumption	AFC	N/A	GJ
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Technical parameters											
Model(s):		3-PH 16kW(heating 9kW);3-PH 16kW(heating 6kW); 3-PH 16kW(heating 3kW);3-PH 16kW									
Air-to-water heat pump:		yes									
Water-to-water heat pump:		no									
Brine-to-water heat pump:		no									
Low-temperature heat pump:		no									
Equipped with a supplementary heater:		yes(for 3-PH 16kW(heating 9kW);3-PH 16kW(heating 6kW);3-PH 16kW(heating 3kW)) no(for 3-PH 16kW)									
Heat pump combination heater:		no									
Declared climate condition:		average									
Parameters are declared for medium-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	13	kW	Seasonal space heating energy efficiency	η_s	136	%	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7^{\circ}C$	P_{dh}	11.3	kW	$T_j = -7^{\circ}C$	COP_d	2.04	-	$T_j = -7^{\circ}C$	COP_d	2.04	-
$T_j = +2^{\circ}C$	P_{dh}	7.3	kW	$T_j = +2^{\circ}C$	COP_d	3.33	-	$T_j = +2^{\circ}C$	COP_d	3.33	-
$T_j = +7^{\circ}C$	P_{dh}	4.8	kW	$T_j = +7^{\circ}C$	COP_d	4.81	-	$T_j = +7^{\circ}C$	COP_d	4.81	-
$T_j = +12^{\circ}C$	P_{dh}	4.0	kW	$T_j = +12^{\circ}C$	COP_d	7.36	-	$T_j = +12^{\circ}C$	COP_d	7.36	-
$T_j =$ bivalent temperature	P_{dh}	11.3	kW	$T_j =$ bivalent temperature	COP_d	2.04	-	$T_j =$ bivalent temperature	COP_d	2.04	-
$T_j =$ operation limit temperature	P_{dh}	11.3	kW	$T_j =$ operation limit temperature	COP_d	1.78	-	$T_j =$ operation limit temperature	COP_d	1.78	-
For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P_{cych}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	1.7	kW	Rated heat output (**)	P_{sup}	1.7	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric						
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m ³ /h	For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m ³ /h
Sound power level, indoors/ outdoors	L_{WA}	-/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q_{HE}	7571	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%	Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ	Annual fuel consumption	AFC	N/A	GJ
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Technical parameters											
Model(s):		3-PH 16kW(heating 9kW);3-PH 16kW(heating 6kW); 3-PH 16kW(heating 3kW);3-PH 16kW									
Air-to-water heat pump:		yes									
Water-to-water heat pump:		no									
Brine-to-water heat pump:		no									
Low-temperature heat pump:		no									
Equipped with a supplementary heater:		yes(for 3-PH 16kW(heating 9kW);3-PH 16kW(heating 6kW);3-PH 16kW(heating 3kW)) no(for 3-PH 16kW)									
Heat pump combination heater:		no									
Declared climate condition:		warmer									
Parameters are declared for medium-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	14	kW	Seasonal space heating energy efficiency	η_s	171	%	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7^{\circ}C$	P_{dh}	N/A	kW	$T_j = -7^{\circ}C$	COP_d	N/A	-	$T_j = -7^{\circ}C$	COP_d	N/A	-
$T_j = +2^{\circ}C$	P_{dh}	13.2	kW	$T_j = +2^{\circ}C$	COP_d	2.32	-	$T_j = +2^{\circ}C$	COP_d	2.32	-
$T_j = +7^{\circ}C$	P_{dh}	9.1	kW	$T_j = +7^{\circ}C$	COP_d	3.70	-	$T_j = +7^{\circ}C$	COP_d	3.70	-
$T_j = +12^{\circ}C$	P_{dh}	4.1	kW	$T_j = +12^{\circ}C$	COP_d	5.80	-	$T_j = +12^{\circ}C$	COP_d	5.80	-
$T_j =$ bivalent temperature	P_{dh}	9.1	kW	$T_j =$ bivalent temperature	COP_d	3.70	-	$T_j =$ bivalent temperature	COP_d	3.70	-
$T_j =$ operation limit temperature	P_{dh}	13.2	kW	$T_j =$ operation limit temperature	COP_d	2.32	-	$T_j =$ operation limit temperature	COP_d	2.32	-
For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P_{cych}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	°C	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	0.8	kW	Rated heat output (**)	P_{sup}	0.8	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input	Electric						
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m ³ /h	For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m ³ /h
Sound power level, indoors/ outdoors	L_{WA}	-/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m ³ /h
Annual energy consumption	Q_{HE}	4321	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%	Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ	Annual fuel consumption	AFC	N/A	GJ
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Technical parameters											
Model(s):		3-PH 16kW(heating 9kW);3-PH 16kW(heating 6kW); 3-PH 16kW(heating 3kW);3-PH 16kW									
Air-to-water heat pump:		yes									
Water-to-water heat pump:		no									
Brine-to-water heat pump:		no									
Low-temperature heat pump:		no									
Equipped with a supplementary heater:		yes(for 3-PH 16kW(heating 9kW);3-PH 16kW(heating 6kW);3-PH 16kW(heating 3kW)) no(for 3-PH 16kW)									
Heat pump combination heater:		no									
Declared climate condition:		colder									
Parameters are declared for medium-temperature application.											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	12	kW	Seasonal space heating energy efficiency	η_s	121	%	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7^{\circ}C$	P_{dh}	7.8	kW	$T_j = -7^{\circ}C$	COP_d	2.64	-	$T_j = -7^{\circ}C$	COP_d	2.64	-
$T_j = +2^{\circ}C$	P_{dh}	4.5	kW	$T_j = +2^{\circ}C$	COP_d	3.78	-	$T_j = +2^{\circ}C$	COP_d	3.78	-
$T_j = +7^{\circ}C$	P_{dh}	3.2	kW	$T_j = +7^{\circ}C$	COP_d	4.87	-	$T_j = +7^{\circ}C$	COP_d	4.87	-
$T_j = +12^{\circ}C$	P_{dh}	3.7	kW	$T_j = +12^{\circ}C$	COP_d	6.40	-	$T_j = +12^{\circ}C$	COP_d	6.40	-
$T_j =$ bivalent temperature	P_{dh}	9.6	kW	$T_j =$ bivalent temperature	COP_d	1.85	-	$T_j =$ bivalent temperature	COP_d	1.85	-
$T_j =$ operation limit temperature	P_{dh}	5.1	kW	$T_j =$ operation limit temperature	COP_d	1.04	-	$T_j =$ operation limit temperature	COP_d	1.04	-
For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	P_{dh}	N/A	kW	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COP_d	N/A	-
Bivalent temperature	T_{biv}	-15	$^{\circ}C$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}C$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}C$
Cycling interval capacity for heating	P_{cyc}	N/A	kW	Cycling interval efficiency	COP_{cyc}	N/A	-	Cycling interval efficiency	COP_{cyc}	N/A	-
Degradation co-efficient (**)	C_{dh}	0.9	-	Heating water operating limit temperature	WTOL	65	$^{\circ}C$	Heating water operating limit temperature	WTOL	65	$^{\circ}C$
Power consumption in modes other than active mode				Supplementary heater							
Off mode	P_{OFF}	0.014	kW	Rated heat output (**)	P_{sup}	6.9	kW	Rated heat output (**)	P_{sup}	6.9	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input Electric							
Standby mode	P_{SB}	0.014	kW								
Crankcase heater mode	P_{CK}	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m^3/h	For air-to-water heat pumps: Rated air flow rate, outdoors	-	6000	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	N/A	m^3/h
Annual energy consumption	Q_{HE}	9356	kWh								
For heat pump combination heater:											
Declared load profile	N/A			Water heating energy efficiency	η_{wh}	N/A	%	Water heating energy efficiency	η_{wh}	N/A	%
Daily electricity consumption	Q_{elec}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh	Daily fuel consumption	Q_{fuel}	N/A	kWh
Annual electricity consumption	AEC	N/A	kWh	Annual fuel consumption	AFC	N/A	GJ	Annual fuel consumption	AFC	N/A	GJ
Contact details	See the back cover of the manual										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.											
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.											

Information requirements for comfort chillers

Model(s):				4kW(heating 3kW);4kW				
Outdoor side heat exchanger of chiller				Air to water				
indoor side heat exchanger chiller				Water				
Type:				compressor driven vapour compression				
Driver af compressor				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	4.6	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	216	%
Declared capacity for cooling for part load at given outdoor temperature Tj				Declared energy efficiency ratio for cooling for part load at given outdoor temperature Tj				
Tj = + 35°C	P _{dc}	4.6	kW		Tj = +35°C	EERd	3.38	-
Tj = + 30°C	P _{dc}	3.5	kW		Tj = + 30°C	EERd	4.60	-
Tj = + 25°C	P _{dc}	2.2	kW		Tj = + 25°C	EERd	6.23	-
Tj = + 20°C	P _{dc}	1.0	kW		Tj = + 20°C	EERd	7.69	-
Degradation co-efficient of chiller (*)								
	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.010	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermostat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.010	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	2600	m ³ /h
Sound power level, indoors/ outdoors	LWA	-/56	dB		For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m ³ /h
Emissions of nitrogen oxide (if applicable)	NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO ₂ eq (100 years)					
Standard rating conditions used	Low temperature application							
Contact details	See the back cover of the manual							
(*)If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9. (**)From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				4kW(heating 3kW);4kW			
Outdoor side heat exchanger of chiller				Air to water			
indoor side heat exchanger chiller				Water			
Type:				compressor driven vapour compression			
Driver of compressor				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	4.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	305	%
Declared capacity for cooling for part load at given outdoor temperature T_j				Declared energy efficiency ratio for cooling for part load at given outdoor temperature T_j			
$T_j = +35^\circ\text{C}$	P_{dc}	4.5	kW	$T_j = +35^\circ\text{C}$	EERd	5.64	-
$T_j = +30^\circ\text{C}$	P_{dc}	3.4	kW	$T_j = +30^\circ\text{C}$	EERd	7.47	-
$T_j = +25^\circ\text{C}$	P_{dc}	2.3	kW	$T_j = +25^\circ\text{C}$	EERd	8.97	-
$T_j = +20^\circ\text{C}$	P_{dc}	1.0	kW	$T_j = +20^\circ\text{C}$	EERd	8.81	-
Degradation co-efficient of chiller (*)							
	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.010	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.010	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	2600	m^3/h
Sound power level, indoors/ outdoors	LWA	-/56	dB	For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m^3/h
Emissions of nitrogen oxide (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV				
GWP of the refrigerant	-	675	kg CO_2eq (100 years)				
Standard rating conditions used	Medium temperature application						
Contact details	See the back cover of the manual						
(*)If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.							
(**)From 26 September 2018.							

Information requirements for comfort chillers

Model(s):				6kW(heating 3kW);6kW				
Outdoor side heat exchanger of chiller				Air to water				
indoor side heat exchanger chiller				Water				
Type:				compressor driven vapour compression				
Driver af compressor				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	6.1	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	207	%
Declared capacity for cooling for part load at given outdoor temperature Tj				Declared energy efficiency ratio for cooling for part load at given outdoor temperature Tj				
Tj = + 35°C	P _{dc}	6.1	kW		Tj = +35°C	EERd	3.22	-
Tj = + 30°C	P _{dc}	4.7	kW		Tj = + 30°C	EERd	4.68	-
Tj = + 25°C	P _{dc}	2.8	kW		Tj = + 25°C	EERd	6.25	-
Tj = + 20°C	P _{dc}	1.2	kW		Tj = + 20°C	EERd	6.07	-
Degradation co-efficient of chiller (*)								
	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.010	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermostat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.010	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	2800	m ³ /h
Sound power level, indoors/ outdoors	LWA	-/59	dB		For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m ³ /h
Emissions of nitrogen oxide (if applicable)	NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO ₂ eq (100 years)					
Standard rating conditions used	Low temperature application							
Contact details	See the back cover of the manual							
(*)If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9. (**)From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				6kW(heating 3kW);6kW			
Outdoor side heat exchanger of chiller				Air to water			
indoor side heat exchanger chiller				Water			
Type:				compressor driven vapour compression			
Driver of compressor				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	6.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	319	%
Declared capacity for cooling for part load at given outdoor temperature T_j				Declared energy efficiency ratio for cooling for part load at given outdoor temperature T_j			
$T_j = +35^\circ\text{C}$	P_{dc}	6.1	kW	$T_j = +35^\circ\text{C}$	EERd	5.19	-
$T_j = +30^\circ\text{C}$	P_{dc}	4.4	kW	$T_j = +30^\circ\text{C}$	EERd	7.22	-
$T_j = +25^\circ\text{C}$	P_{dc}	2.9	kW	$T_j = +25^\circ\text{C}$	EERd	10.09	-
$T_j = +20^\circ\text{C}$	P_{dc}	1.3	kW	$T_j = +20^\circ\text{C}$	EERd	8.82	-
Degradation co-efficient of chiller (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.010	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.010	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	2800	m^3/h
Sound power level, indoors/ outdoors	LWA	-/59	dB	For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m^3/h
Emissions of nitrogen oxide (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV				
GWP of the refrigerant	-	675	kg CO_2eq (100 years)				
Standard rating conditions used	Medium temperature application						
Contact details	See the back cover of the manual						
(*)If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9. (**)From 26 September 2018.							

Information requirements for comfort chillers

Model(s):				8kW(heating 3kW);8kW				
Outdoor side heat exchanger of chiller:				Air to water				
indoor side heat exchanger chiller:				Water				
Type:				compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	7	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	214	%
Declared capacity for cooling for part load at given outdoor temperature T_j				Declared energy efficiency ratio for cooling for part load at given outdoor temperature T_j				
$T_j = + 35^{\circ}\text{C}$	P_{dc}	7.0	kW		$T_j = +35^{\circ}\text{C}$	EER_d	3.38	-
$T_j = + 30^{\circ}\text{C}$	P_{dc}	5.7	kW		$T_j = + 30^{\circ}\text{C}$	EER_d	4.60	-
$T_j = + 25^{\circ}\text{C}$	P_{dc}	3.7	kW		$T_j = + 25^{\circ}\text{C}$	EER_d	6.23	-
$T_j = + 20^{\circ}\text{C}$	P_{dc}	1.7	kW		$T_j = + 20^{\circ}\text{C}$	EER_d	7.69	-
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.014	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW		Standby mode	P_{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4000	m^3/h
Sound power level, indoors/ outdoors	LWA	-/60	dB		For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m^3/h
Emissions of nitrogen oxide (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO_2 eq (100 years)					
Standard rating conditions used	Low temperature application							
Contact details	See the back cover of the manual							
(*)If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								
(**)From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				8kW(heating 3kW);8kW				
Outdoor side heat exchanger of chiller:				Air to water				
indoor side heat exchanger chiller:				Water				
Type:				compressor driven vapour compression				
Driver af compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	8	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	318	%
Declared capacity for cooling for part load at given outdoor temperature T_j				Declared energy efficiency ratio for cooling for part load at given outdoor temperature T_j				
$T_j = + 35^{\circ}\text{C}$	P_{dc}	8.0	kW		$T_j = +35^{\circ}\text{C}$	EER_d	4.95	-
$T_j = + 30^{\circ}\text{C}$	P_{dc}	6.4	kW		$T_j = + 30^{\circ}\text{C}$	EER_d	6.61	-
$T_j = + 25^{\circ}\text{C}$	P_{dc}	4.3	kW		$T_j = + 25^{\circ}\text{C}$	EER_d	9.06	-
$T_j = + 20^{\circ}\text{C}$	P_{dc}	1.8	kW		$T_j = + 20^{\circ}\text{C}$	EER_d	13.14	-
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.014	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW		Standby mode	P_{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4000	m^3/h
Sound power level, indoors/ outdoors	LWA	-/60	dB		For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m^3/h
Emissions of nitrogen oxide (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO_2 eq (100 years)					
Standard rating conditions used	Medium temperature application							
Contact details	See the back cover of the manual							
(*)If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								
(**)From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				10kW(heating 3kW);10kW				
Outdoor side heat exchanger of chiller:				Air to water				
indoor side heat exchanger chiller:				Water				
Type:				compressor driven vapour compression				
Driver af compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	8	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	212	%
Declared capacity for cooling for part load at given outdoor temperature T_j				Declared energy efficiency ratio for cooling for part load at given outdoor temperature T_j				
$T_j = + 35^{\circ}\text{C}$	P_{dc}	8.1	kW		$T_j = +35^{\circ}\text{C}$	EER_d	3.16	-
$T_j = + 30^{\circ}\text{C}$	P_{dc}	6.6	kW		$T_j = + 30^{\circ}\text{C}$	EER_d	4.38	-
$T_j = + 25^{\circ}\text{C}$	P_{dc}	4.3	kW		$T_j = + 25^{\circ}\text{C}$	EER_d	6.18	-
$T_j = + 20^{\circ}\text{C}$	P_{dc}	1.9	kW		$T_j = + 20^{\circ}\text{C}$	EER_d	8.17	-
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.014	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW		Standby mode	P_{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4500	m^3/h
Sound power level, indoors/ outdoors	LWA	-/61	dB		For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m^3/h
Emissions of nitrogen oxide (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO_2 eq (100 years)					
Standard rating conditions used	Low temperature application							
Contact details	See the back cover of the manual							
(*)If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								
(**)From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				10kW(heating 3kW);10kW				
Outdoor side heat exchanger of chiller:				Air to water				
indoor side heat exchanger chiller:				Water				
Type:				compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	10	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	307	%
Declared capacity for cooling for part load at given outdoor temperature T_j				Declared energy efficiency ratio for cooling for part load at given outdoor temperature T_j				
$T_j = + 35^{\circ}\text{C}$	P_{dc}	9.5	kW		$T_j = +35^{\circ}\text{C}$	EER_d	4.56	-
$T_j = + 30^{\circ}\text{C}$	P_{dc}	7.7	kW		$T_j = + 30^{\circ}\text{C}$	EER_d	6.33	-
$T_j = + 25^{\circ}\text{C}$	P_{dc}	4.9	kW		$T_j = + 25^{\circ}\text{C}$	EER_d	8.48	-
$T_j = + 20^{\circ}\text{C}$	P_{dc}	2.3	kW		$T_j = + 20^{\circ}\text{C}$	EER_d	13.19	-
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.014	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW		Standby mode	P_{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4500	m^3/h
Sound power level, indoors/ outdoors	LWA	-/61	dB		For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m^3/h
Emissions of nitrogen oxide (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO_2 eq (100 years)					
Standard rating conditions used	Medium temperature application							
Contact details	See the back cover of the manual							
(*)If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								
(**)From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				12kW(heating 3kW);12kW				
Outdoor side heat exchanger of chiller:				Air to water				
indoor side heat exchanger chiller:				Water				
Type:				compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	201	%
Declared capacity for cooling for part load at given outdoor temperature T_j				Declared energy efficiency ratio for cooling for part load at given outdoor temperature T_j				
$T_j = +35^\circ\text{C}$	P_{dc}	11.6	kW		$T_j = +35^\circ\text{C}$	EER_d	2.80	-
$T_j = +30^\circ\text{C}$	P_{dc}	8.7	kW		$T_j = +30^\circ\text{C}$	EER_d	4.34	-
$T_j = +25^\circ\text{C}$	P_{dc}	5.8	kW		$T_j = +25^\circ\text{C}$	EER_d	6.02	-
$T_j = +20^\circ\text{C}$	P_{dc}	2.6	kW		$T_j = +20^\circ\text{C}$	EER_d	6.46	-
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.020	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.010	kW		Standby mode	P_{SB}	0.020	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	5000	m^3/h
Sound power level, indoors/ outdoors	LWA	-/64	dB		For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m^3/h
Emissions of nitrogen oxide (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO_2 eq (100 years)					
Standard rating conditions used	Low temperature application							
Contact details	See the back cover of the manual							
(*)If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								
(**)From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				12kW(heating 3kW);12kW				
Outdoor side heat exchanger of chiller:				Air to water				
indoor side heat exchanger chiller:				Water				
Type:				compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	295	%
Declared capacity for cooling for part load at given outdoor temperature T_j				Declared energy efficiency ratio for cooling for part load at given outdoor temperature T_j				
$T_j = +35^\circ\text{C}$	P_{dc}	12.0	kW		$T_j = +35^\circ\text{C}$	EER_d	3.96	-
$T_j = +30^\circ\text{C}$	P_{dc}	9.3	kW		$T_j = +30^\circ\text{C}$	EER_d	6.16	-
$T_j = +25^\circ\text{C}$	P_{dc}	5.6	kW		$T_j = +25^\circ\text{C}$	EER_d	9.03	-
$T_j = +20^\circ\text{C}$	P_{dc}	3.5	kW		$T_j = +20^\circ\text{C}$	EER_d	10.04	-
Degradation co-efficient of chiller (*)								
	C_{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.020	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.010	kW		Standby mode	P_{SB}	0.020	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	5000	m^3/h
Sound power level, indoors/ outdoors	LWA	-/64	dB		For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m^3/h
Emissions of nitrogen oxide (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO_2 eq (100 years)					
Standard rating conditions used	Medium temperature application							
Contact details	See the back cover of the manual							
(*)If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								
(**)From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				14kW(heating 3kW);14kW				
Outdoor side heat exchanger of chiller:				Air to water				
indoor side heat exchanger chiller:				Water				
Type:				compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	200	%
Declared capacity for cooling for part load at given outdoor temperature T_j				Declared energy efficiency ratio for cooling for part load at given outdoor temperature T_j				
$T_j = +35^\circ\text{C}$	P_{dc}	12.7	kW		$T_j = +35^\circ\text{C}$	EER_d	2.59	-
$T_j = +30^\circ\text{C}$	P_{dc}	9.5	kW		$T_j = +30^\circ\text{C}$	EER_d	4.33	-
$T_j = +25^\circ\text{C}$	P_{dc}	6.3	kW		$T_j = +25^\circ\text{C}$	EER_d	6.08	-
$T_j = +20^\circ\text{C}$	P_{dc}	3.0	kW		$T_j = +20^\circ\text{C}$	EER_d	6.64	-
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.020	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.010	kW		Standby mode	P_{SB}	0.020	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	5500	m^3/h
Sound power level, indoors/ outdoors	LWA	-/66	dB		For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m^3/h
Emissions of nitrogen oxide (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO_2 eq (100 years)					
Standard rating conditions used	Low temperature application							
Contact details	See the back cover of the manual							
(*)If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								
(**)From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				14kW(heating 3kW);14kW				
Outdoor side heat exchanger of chiller:				Air to water				
indoor side heat exchanger chiller:				Water				
Type:				compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	281	%
Declared capacity for cooling for part load at given outdoor temperature T_j				Declared energy efficiency ratio for cooling for part load at given outdoor temperature T_j				
$T_j = +35^\circ\text{C}$	P_{dc}	13.6	kW		$T_j = +35^\circ\text{C}$	EER_d	3.73	-
$T_j = +30^\circ\text{C}$	P_{dc}	10.4	kW		$T_j = +30^\circ\text{C}$	EER_d	5.75	-
$T_j = +25^\circ\text{C}$	P_{dc}	6.6	kW		$T_j = +25^\circ\text{C}$	EER_d	8.58	-
$T_j = +20^\circ\text{C}$	P_{dc}	3.5	kW		$T_j = +20^\circ\text{C}$	EER_d	9.96	-
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.020	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.010	kW		Standby mode	P_{SB}	0.020	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	5500	m^3/h
Sound power level, indoors/ outdoors	LWA	-/66	dB		For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m^3/h
Emissions of nitrogen oxide (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO_2 eq (100 years)					
Standard rating conditions used	Medium temperature application							
Contact details	See the back cover of the manual							
(*)If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								
(**)From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				16kW(heating 3kW);16kW				
Outdoor side heat exchanger of chiller:				Air to water				
indoor side heat exchanger chiller:				Water				
Type:				compressor driven vapour compression				
Driver af compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	192	%
Declared capacity for cooling for part load at given outdoor temperature T_j				Declared energy efficiency ratio for cooling for part load at given outdoor temperature T_j				
$T_j = + 35^{\circ}\text{C}$	P_{dc}	14.3	kW		$T_j = +35^{\circ}\text{C}$	EER_d	2.51	-
$T_j = + 30^{\circ}\text{C}$	P_{dc}	10.6	kW		$T_j = + 30^{\circ}\text{C}$	EER_d	3.70	-
$T_j = + 25^{\circ}\text{C}$	P_{dc}	6.8	kW		$T_j = + 25^{\circ}\text{C}$	EER_d	5.87	-
$T_j = + 20^{\circ}\text{C}$	P_{dc}	3.5	kW		$T_j = + 20^{\circ}\text{C}$	EER_d	7.23	-
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.020	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.010	kW		Standby mode	P_{SB}	0.020	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	6000	m^3/h
Sound power level, indoors/ outdoors	LWA	-/68	dB		For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m^3/h
Emissions of nitrogen oxide (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO_2 eq (100 years)					
Standard rating conditions used	Low temperature application							
Contact details	See the back cover of the manual							
(*)If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								
(**)From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				16kW(heating 3kW);16kW					
Outdoor side heat exchanger of chiller:				Air to water					
indoor side heat exchanger chiller:				Water					
Type:				compressor driven vapour compression					
Driver af compressor:				Electric motor					
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit	
Rated heat output (*)	$P_{rated,c}$	15	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	280	%	
Declared capacity for cooling for part load at given outdoor temperature T_j				Declared energy efficiency ratio for cooling for part load at given outdoor temperature T_j					
$T_j = + 35^{\circ}\text{C}$	P_{dc}	15.4	kW		$T_j = +35^{\circ}\text{C}$	EER_d	3.50	-	
$T_j = + 30^{\circ}\text{C}$	P_{dc}	11.6	kW		$T_j = + 30^{\circ}\text{C}$	EER_d	5.45	-	
$T_j = + 25^{\circ}\text{C}$	P_{dc}	7.3	kW		$T_j = + 25^{\circ}\text{C}$	EER_d	8.35	-	
$T_j = + 20^{\circ}\text{C}$	P_{dc}	4.6	kW		$T_j = + 20^{\circ}\text{C}$	EER_d	11.68	-	
Power consumption in modes other than "active mode"									
Off mode	P_{OFF}	0.020	kW		Crankcase heater mode	P_{CK}	0.000	kW	
Thermostat-off mode	P_{TO}	0.010	kW		Standby mode	P_{SB}	0.020	kW	
Other items									
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	6000	m^3/h	
Sound power level, indoors/ outdoors	LWA	-/68	dB		For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m^3/h	
Emissions of nitrogen oxide (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV						
GWP of the refrigerant	-	675	kg CO_2 eq (100 years)						
Standard rating conditions used	Medium temperature application								
Contact details	See the back cover of the manual								
(*)If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.									
(**)From 26 September 2018.									

Information requirements for comfort chillers

Model(s):				3-PH 12kW(heating 9kW);3-PH 12kW(heating 6kW); 3-PH 12kW(heating 3kW);3-PH 12kW			
Outdoor side heat exchanger of chiller				Air to water			
indoor side heat exchanger chiller				Water			
Type:				compressor driven vapour compression			
Driver af compressor				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	197	%
Declared capacity for cooling for part load at given outdoor temperature T_j				Declared energy efficiency ratio for cooling for part load at given outdoor temperature T_j			
$T_j = +35^\circ\text{C}$	P_{dc}	11.7	kW	$T_j = +35^\circ\text{C}$	EERd	2.64	-
$T_j = +30^\circ\text{C}$	P_{dc}	8.8	kW	$T_j = +30^\circ\text{C}$	EERd	4.09	-
$T_j = +25^\circ\text{C}$	P_{dc}	5.9	kW	$T_j = +25^\circ\text{C}$	EERd	5.58	-
$T_j = +20^\circ\text{C}$	P_{dc}	4.1	kW	$T_j = +20^\circ\text{C}$	EERd	8.01	-
Power consumption in modes other than "active mode"							
Degradation co-efficient of chiller (*)	C_{dc}	0.9	-				
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	5000	m ³ /h
Sound power level, indoors/ outdoors	LWA	-/64	dB	For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m ³ /h
Emissions of nitrogen oxide (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV				
GWP of the refrigerant	-	675	kg CO ₂ eq (100 years)				
Standard rating conditions used	Low temperature application						
Contact details	See the back cover of the manual						
(*)If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.							
(**)From 26 September 2018.							

Information requirements for comfort chillers

Model(s):				3-PH 12kW(heating 9kW);3-PH 12kW(heating 6kW); 3-PH 12kW(heating 3kW);3-PH 12kW			
Outdoor side heat exchanger of chiller				Air to water			
indoor side heat exchanger chiller				Water			
Type:				compressor driven vapour compression			
Driver of compressor				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	12	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	276	%
Declared capacity for cooling for part load at given outdoor temperature Tj				Declared energy efficiency ratio for cooling for part load at given outdoor temperature Tj			
Tj = + 35°C	P _{dc}	12.0	kW	Tj = +35°C	EERd	3.91	-
Tj = + 30°C	P _{dc}	9.3	kW	Tj = + 30°C	EERd	5.67	-
Tj = + 25°C	P _{dc}	5.7	kW	Tj = + 25°C	EERd	7.98	-
Tj = + 20°C	P _{dc}	5.1	kW	Tj = + 20°C	EERd	11.37	-
Degradation co-efficient of chiller (*)	C _{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P _{OFF}	0.014	kW	Crankcase heater mode	P _{CK}	0.000	kW
Thermostat-off mode	P _{TO}	0.024	kW	Standby mode	P _{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	5000	m ³ /h
Sound power level, indoors/ outdoors	LWA	-/64	dB	For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m ³ /h
Emissions of nitrogen oxide (if applicable)	NO _x (**)	-	mg/kWh input GCV				
GWP of the refrigerant	-	675	kg CO ₂ eq (100 years)				
Standard rating conditions used	Medium temperature application						
Contact details	See the back cover of the manual						
(*)If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9. (**)From 26 September 2018.							

Information requirements for comfort chillers

Model(s):				3-PH 14kW(heating 9kW);3-PH 14kW(heating 6kW); 3-PH 14kW(heating 3kW);3-PH 14kW				
Outdoor side heat exchanger of chiller				Air to water				
indoor side heat exchanger chiller				Water				
Type:				compressor driven vapour compression				
Driver of compressor				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	188	%
Declared capacity for cooling for part load at given outdoor temperature T_j				Declared energy efficiency ratio for cooling for part load at given outdoor temperature T_j				
$T_j = +35^\circ\text{C}$	P_{dc}	12.7	kW		$T_j = +35^\circ\text{C}$	EERd	2.36	-
$T_j = +30^\circ\text{C}$	P_{dc}	9.5	kW		$T_j = +30^\circ\text{C}$	EERd	4.07	-
$T_j = +25^\circ\text{C}$	P_{dc}	6.1	kW		$T_j = +25^\circ\text{C}$	EERd	5.76	-
$T_j = +20^\circ\text{C}$	P_{dc}	2.8	kW		$T_j = +20^\circ\text{C}$	EERd	6.05	-
Degradation co-efficient of chiller (*)				C_{dc}	0.9	-		
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.014	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW		Standby mode	P_{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	5500	m^3/h
Sound power level, indoors/ outdoors	LWA	-/66	dB		For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m^3/h
Emissions of nitrogen oxide (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO_2eq (100 years)					
Standard rating conditions used	Low temperature application							
Contact details	See the back cover of the manual							
(*)If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								
(**)From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				3-PH 14kW(heating 9kW);3-PH 14kW(heating 6kW); 3-PH 14kW(heating 3kW);3-PH 14kW				
Outdoor side heat exchanger of chiller				Air to water				
indoor side heat exchanger chiller				Water				
Type:				compressor driven vapour compression				
Driver af compressor				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	14	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	269	%
Declared capacity for cooling for part load at given outdoor temperature Tj				Declared energy efficiency ratio for cooling for part load at given outdoor temperature Tj				
Tj = + 35°C	P _{dc}	13.5	kW		Tj = +35°C	EERd	3.72	-
Tj = + 30°C	P _{dc}	10.3	kW		Tj = + 30°C	EERd	5.51	-
Tj = + 25°C	P _{dc}	6.5	kW		Tj = + 25°C	EERd	8.11	-
Tj = + 20°C	P _{dc}	3.4	kW		Tj = + 20°C	EERd	9.49	-
Degradation co-efficient of chiller (*)								
	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.014	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermostat-off mode	P _{TO}	0.024	kW		Standby mode	P _{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	5500	m ³ /h
Sound power level, indoors/ outdoors	LWA	-/66	dB		For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m ³ /h
Emissions of nitrogen oxide (if applicable)	NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO ₂ eq (100 years)					
Standard rating conditions used	Medium temperature application							
Contact details	See the back cover of the manual							
(*)If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								
(**)From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				3-PH 16kW(heating 9kW);3-PH 16kW(heating 6kW); 3-PH 16kW(heating 3kW);3-PH 16kW			
Outdoor side heat exchanger of chiller				Air to water			
indoor side heat exchanger chiller				Water			
Type:				compressor driven vapour compression			
Driver af compressor				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	14	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	186	%
Declared capacity for cooling for part load at given outdoor temperature Tj				Declared energy efficiency ratio for cooling for part load at given outdoor temperature Tj			
Tj = + 35°C	P _{dc}	13.8	kW	Tj = +35°C	EERd	2.41	-
Tj = + 30°C	P _{dc}	10.9	kW	Tj = + 30°C	EERd	3.65	-
Tj = + 25°C	P _{dc}	6.9	kW	Tj = + 25°C	EERd	5.60	-
Tj = + 20°C	P _{dc}	3.6	kW	Tj = + 20°C	EERd	7.08	-
Power consumption in modes other than "active mode"							
Degradation co-efficient of chiller (*)	C _{dc}	0.9	-				
Off mode	P _{OFF}	0.014	kW	Crankcase heater mode	P _{CK}	0.000	kW
Thermostat-off mode	P _{TO}	0.024	kW	Standby mode	P _{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	6000	m ³ /h
Sound power level, indoors/ outdoors	LWA	-/68	dB	For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m ³ /h
Emissions of nitrogen oxide (if applicable)	NO _x (**)	-	mg/kWh input GCV				
GWP of the refrigerant	-	675	kg CO ₂ eq (100 years)				
Standard rating conditions used	Low temperature application						
Contact details	See the back cover of the manual						
(*)If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9. (**)From 26 September 2018.							

Information requirements for comfort chillers

Model(s):				3-PH 16kW(heating 9kW);3-PH 16kW(heating 6kW); 3-PH 16kW(heating 3kW);3-PH 16kW			
Outdoor side heat exchanger of chiller				Air to water			
indoor side heat exchanger chiller				Water			
Type:				compressor driven vapour compression			
Driver af compressor				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	16	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	263	%
Declared capacity for cooling for part load at given outdoor temperature Tj				Declared energy efficiency ratio for cooling for part load at given outdoor temperature Tj			
Tj = + 35°C	P _{dc}	15.5	kW	Tj = +35°C	EERd	3.35	-
Tj = + 30°C	P _{dc}	11.6	kW	Tj = + 30°C	EERd	4.90	-
Tj = + 25°C	P _{dc}	7.5	kW	Tj = + 25°C	EERd	7.91	-
Tj = + 20°C	P _{dc}	5.1	kW	Tj = + 20°C	EERd	11.29	-
Degradation co-efficient of chiller (*)	C _{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P _{OFF}	0.014	kW	Crankcase heater mode	P _{CK}	0.000	kW
Thermostat-off mode	P _{TO}	0.024	kW	Standby mode	P _{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	6000	m ³ /h
Sound power level, indoors/ outdoors	LWA	-/68	dB	For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	N/A	m ³ /h
Emissions of nitrogen oxide (if applicable)	NO _x (**)	-	mg/kWh input GCV				
GWP of the refrigerant	-	675	kg CO ₂ eq (100 years)				
Standard rating conditions used	Medium temperature application						
Contact details	See the back cover of the manual						
(*)If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9. (**)From 26 September 2018.							

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MANUEL DE DONNÉES TECHNIQUES

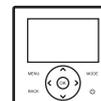
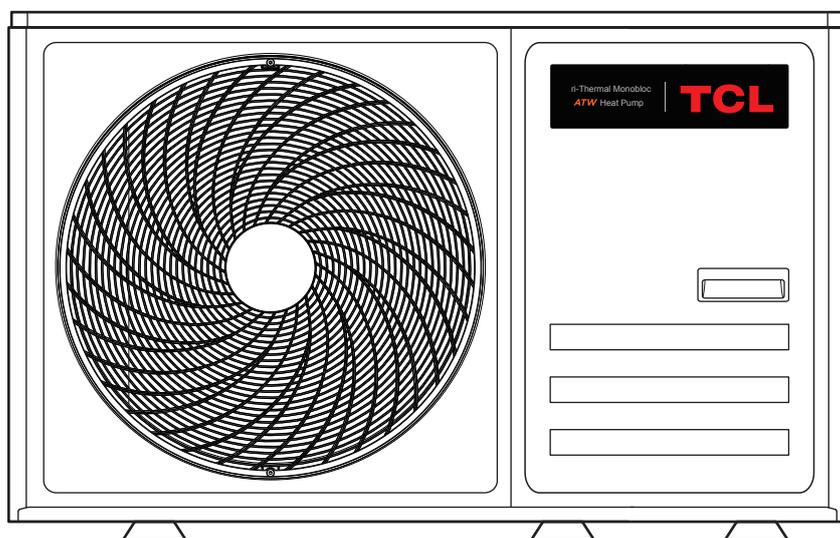
Système de pompe à chaleur air-eau Tri-Thermal Monobloc

4kW
4kW(chauffage 3kW)
6kW
6kW(chauffage 3kW)
8kW
8kW(chauffage 3kW)
10kW
10kW(chauffage 3kW)
12kW
12kW(chauffage 3kW)
14kW
14kW(chauffage 3kW)
16kW
16kW(chauffage 3kW)

THML-4D/HBp-A
THMLd-4D/3HBp-A
THML-6D/HBp-A
THMLd-6D/3HBp-A
THML-8D/HBp-A
THMLd-8D/3HBp-A
THML-10D/HBp-A
THMLd-10D/3HBp-A
THML-12D/HBp-A
THMLd-12D/3HBp-A
THML-14D/HBp-A
THMLd-14D/3HBp-A
THML-16D/HBp-A
THMLd-16D/3HBp-A

3-PH 12kW
3-PH 12kW(chauffage 3kW)
3-PH 12kW(chauffage 6kW)
3-PH 12kW(chauffage 9kW)
3-PH 14kW
3-PH 14kW(chauffage 3kW)
3-PH 14kW(chauffage 6kW)
3-PH 14kW(chauffage 9kW)
3-PH 16kW
3-PH 16kW(chauffage 3kW)
3-PH 16kW(chauffage 6kW)
3-PH 16kW(chauffage 9kW)

THML-12S/HBp-A
THMLd-12S/3HBp-A
THMLd-12S/6HBp-A
THMLd-12S/9HBp-A
THML-14S/HBp-A
THMLd-14S/3HBp-A
THMLd-14S/6HBp-A
THMLd-14S/9HBp-A
THML-16S/HBp-A
THMLd-16S/3HBp-A
THMLd-16S/6HBp-A
THMLd-16S/9HBp-A



IMPORTANT NOTE :

Merci beaucoup pour l'achat de notre produit :

Avant d'utiliser votre appareil, veuillez lire attentivement ce manuel et le conserver pour référence future.

Paramètres techniques

Modèle(s):	4kW(chauffage 3kW);4kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 4kW(chauffage 3kW)) oui(pour 4kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	Moyen
Les paramètres sont déclarés pour une application basse température;	

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	5.7	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	182	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T_j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T_j			
$T_j = -7^\circ\text{C}$	Puissance nominale	5.1	kW	$T_j = -7^\circ\text{C}$	COP_d	2.82	-
$T_j = +2^\circ\text{C}$	P_{dh}	3.1	kW	$T_j = +2^\circ\text{C}$	COP_d	4.37	-
$T_j = +7^\circ\text{C}$	P_{dh}	1.7	kW	$T_j = +7^\circ\text{C}$	COP_d	6.57	-
$T_j = +12^\circ\text{C}$	P_{dh}	5.1	kW	$T_j = +12^\circ\text{C}$	COP_d	8.83	-
$T_j =$ température bivalente	P_{dh}	4.6	kW	$T_j =$ température bivalente	COP_d	2.82	-
$T_j =$ température limite d'exploitation	P_{dh}	11.1	kW	$T_j =$ température limite d'exploitation	COP_d	2.60	-
Pour les pompes à chaleur air-eau : $T_j = -15^\circ\text{C}$ (si $\text{TOL} < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Pour les pompes à chaleur air-eau : $T_j = -15^\circ\text{C}$ (si $\text{TOL} < -20^\circ\text{C}$)	COP_d	N/A	-
Température bivalente	T_{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P_{cyh}	N/A	kW	Efficacité de l'intervalle de cycle	COP_{cyc}	N/A	-
Coefficient de dégradation (**)	C_{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P_{OFF}	0.010	kW	Puissance thermique nominale (**)	p_{sup}	1.1	KW
Mode thermostat éteint	P_{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P_{SB}	0.010	kW				
Mode chauffage du carter	P_{CK}	0.000	kW				

Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	2600	m³/h
Niveau de puissance sonore, intérieur/extérieur	L_{WA}	-56	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m³/h
Consommation annuelle d'énergie	Q_{HE}	2559	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q_{elec}	N/A	kWh	Consommation quotidienne de combustible	Q_{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact : Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est $C_{dh} = 0,9$.

Paramètres techniques

Modèle(s):	4kW(chauffage 3kW);4kW						
Pompe à chaleur air-eau	oui						
Pompe à chaleur eau-eau	non						
Pompe à chaleur eau glycolée-eau	non						
Pompe à chaleur basse température	non						
Équipée d'une résistance de chauffage supplémentaire	non(pour 4kW(chauffage 3kW)) oui(pour 4kW)						
Chauffe-eau combiné avec pompe à chaleur	non						
Conditions climatiques déclarées ;	plus chaud						
Les paramètres sont déclarés pour une application basse température;							
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	5.3	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	264	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	N/A	kW	Tj = - 7°C	COP _d	N/A	-
Tj = + 2°C	P _{dh}	5.3	kW	Tj = + 2°C	COP _d	3.39	-
Tj = + 7°C	P _{dh}	3.4	kW	Tj = + 7°C	COP _d	5.81	-
Tj = + 12°C	P _{dh}	1.7	kW	Tj = + 12°C	COP _d	8.62	-
Tj = température bivalente	P _{dh}	3.4	kW	Tj = température bivalente	COP _d	5.81	-
Tj = température limite d'exploitation	P _{dh}	5.3	kW	Tj = température limite d'exploitation	COP _d	3.39	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				
Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	2600	m³/h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-56	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m³/h
Consommation annuelle d'énergie	Q _{HE}	1065	kWh				
Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C _{dh} = 0,9.							

Paramètres techniques

Modèle(s):	4kW(chauffage 3kW);4kW						
Pompe à chaleur air-eau	oui						
Pompe à chaleur eau-eau	non						
Pompe à chaleur eau glycolée-eau	non						
Pompe à chaleur basse température	non						
Équipée d'une résistance de chauffage supplémentaire	non(pour 4kW(chauffage 3kW)) oui(pour 4kW)						
Chauffe-eau combiné avec pompe à chaleur	non						
Conditions climatiques déclarées ;	plus froid						
Les paramètres sont déclarés pour une application basse température;							
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	5.0	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	160	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	3.0	kW	Tj = - 7°C	COP _d	3.45	-
Tj = + 2°C	P _{dh}	1.9	kW	Tj = + 2°C	COP _d	5.00	-
Tj = + 7°C	P _{dh}	1.2	kW	Tj = + 7°C	COP _d	5.73	-
Tj = + 12°C	P _{dh}	1.6	kW	Tj = + 12°C	COP _d	7.84	-
Tj = température bivalente	P _{dh}	4.1	kW	Tj = température bivalente	COP _d	2.51	-
Tj = température limite d'exploitation	P _{dh}	3.3	kW	Tj = température limite d'exploitation	COP _d	1.72	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	2.7	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				
Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	2500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-56	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	3038	kWh				
Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C _{dh} = 0,9.							

Paramètres techniques

Modèle(s):	4kW(chauffage 3kW);4kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 4kW(chauffage 3kW)) oui(pour 4kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	Moyen

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	4.7	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	131	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	4.2	kW	Tj = - 7°C	COP _d	2.14	-
Tj = + 2°C	P _{dh}	2.5	kW	Tj = + 2°C	COP _d	3.26	-
Tj = + 7°C	P _{dh}	1.7	kW	Tj = + 7°C	COP _d	4.44	-
Tj = + 12°C	P _{dh}	1.4	kW	Tj = + 12°C	COP _d	5.54	-
Tj = température bivalente	P _{dh}	4.2	kW	Tj = température bivalente	COP _d	2.14	-
Tj = température limite d'exploitation	P _{dh}	3.7	kW	Tj = température limite d'exploitation	COP _d	1.72	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	1.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	2600	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-56	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	2898	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	4kW(chauffage 3kW);4kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 4kW(chauffage 3kW)) oui(pour 4kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus chaud

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	5.0	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	165	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	N/A	kW	Tj = - 7°C	COP _d	N/A	-
Tj = + 2°C	P _{dh}	5.0	kW	Tj = + 2°C	COP _d	2.31	-
Tj = + 7°C	P _{dh}	3.2	kW	Tj = + 7°C	COP _d	3.68	-
Tj = + 12°C	P _{dh}	1.5	kW	Tj = + 12°C	COP _d	5.21	-
Tj = température bivalente	P _{dh}	3.2	kW	Tj = température bivalente	COP _d	3.68	-
Tj = température limite d'exploitation	P _{dh}	5.0	kW	Tj = température limite d'exploitation	COP _d	2.31	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	2600	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-56	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	1604	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	4kW(chauffage 3kW);4kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 4kW(chauffage 3kW)) oui(pour 4kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus froid

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	3.7	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	107	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	2.3	kW	Tj = - 7°C	COP _d	2.34	-
Tj = + 2°C	P _{dh}	1.4	kW	Tj = + 2°C	COP _d	3.22	-
Tj = + 7°C	P _{dh}	1.6	kW	Tj = + 7°C	COP _d	4.58	-
Tj = + 12°C	P _{dh}	1.5	kW	Tj = + 12°C	COP _d	6.33	-
Tj = température bivalente	P _{dh}	3.0	kW	Tj = température bivalente	COP _d	1.69	-
Tj = température limite d'exploitation	P _{dh}	2.5	kW	Tj = température limite d'exploitation	COP _d	1.17	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	P _{sup}	1.2	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	2600	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/56	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	3308	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	6kW(chauffage 3kW);6kW						
Pompe à chaleur air-eau	oui						
Pompe à chaleur eau-eau	non						
Pompe à chaleur eau glycolée-eau	non						
Pompe à chaleur basse température	non						
Équipée d'une résistance de chauffage supplémentaire	non(pour 6kW(chauffage 3kW)) oui(pour 6kW)						
Chauffe-eau combiné avec pompe à chaleur	non						
Conditions climatiques déclarées ;	Moyen						
Les paramètres sont déclarés pour une application basse température;							
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	7.0	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	182.7	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	6.2	kW	Tj = - 7°C	COP _d	2.74	-
Tj = + 2°C	P _{dh}	3.6	kW	Tj = + 2°C	COP _d	4.39	-
Tj = + 7°C	P _{dh}	2.5	kW	Tj = + 7°C	COP _d	6.72	-
Tj = + 12°C	P _{dh}	1.4	kW	Tj = + 12°C	COP _d	8.13	-
Tj = température bivalente	P _{dh}	6.2	kW	Tj = température bivalente	COP _d	2.74	-
Tj = température limite d'exploitation	P _{dh}	6.0	kW	Tj = température limite d'exploitation	COP _d	2.55	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	1.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				
Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	2800	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/59	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	3120	kWh				
Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C _{dh} = 0,9.							

Paramètres techniques

Modèle(s):	6kW(chauffage 3kW);6kW						
Pompe à chaleur air-eau	oui						
Pompe à chaleur eau-eau	non						
Pompe à chaleur eau glycolée-eau	non						
Pompe à chaleur basse température	non						
Équipée d'une résistance de chauffage supplémentaire	non(pour 6kW(chauffage 3kW)) oui(pour 6kW)						
Chauffe-eau combiné avec pompe à chaleur	non						
Conditions climatiques déclarées ;	plus chaud						
Les paramètres sont déclarés pour une application basse température;							
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	6.0	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	264	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	N/A	kW	Tj = - 7°C	COP _d	N/A	-
Tj = + 2°C	P _{dh}	5.9	kW	Tj = + 2°C	COP _d	3.49	-
Tj = + 7°C	P _{dh}	3.9	kW	Tj = + 7°C	COP _d	5.71	-
Tj = + 12°C	P _{dh}	2.0	kW	Tj = + 12°C	COP _d	8.78	-
Tj = température bivalente	P _{dh}	3.9	kW	Tj = température bivalente	COP _d	5.71	-
Tj = température limite d'exploitation	P _{dh}	5.9	kW	Tj = température limite d'exploitation	COP _d	3.49	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.1	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				
Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	2800	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/59	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	1202	kWh				
Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C _{dh} = 0,9.							

Paramètres techniques

Modèle(s):	6kW(chauffage 3kW);6kW						
Pompe à chaleur air-eau	oui						
Pompe à chaleur eau-eau	non						
Pompe à chaleur eau glycolée-eau	non						
Pompe à chaleur basse température	non						
Équipée d'une résistance de chauffage supplémentaire	non(pour 6kW(chauffage 3kW)) oui(pour 6kW)						
Chauffe-eau combiné avec pompe à chaleur	non						
Conditions climatiques déclarées ;	plus froid						
Les paramètres sont déclarés pour une application basse température;							
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	6.0	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	166	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	3.6	kW	Tj = - 7°C	COP _d	3.51	-
Tj = + 2°C	P _{dh}	2.2	kW	Tj = + 2°C	COP _d	5.36	-
Tj = + 7°C	P _{dh}	1.5	kW	Tj = + 7°C	COP _d	6.66	-
Tj = + 12°C	P _{dh}	1.6	kW	Tj = + 12°C	COP _d	7.97	-
Tj = température bivalente	P _{dh}	4.9	kW	Tj = température bivalente	COP _d	2.39	-
Tj = température limite d'exploitation	P _{dh}	3.6	kW	Tj = température limite d'exploitation	COP _d	1.78	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	P _{sup}	2.4	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				
Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	2800	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/59	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	3515	kWh				
Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C _{dh} = 0,9.							

Paramètres techniques

Modèle(s):	6kW(chauffage 3kW);6kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 6 kW(chauffage 3kW)) oui(pour 6kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	Moyen

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	6.0	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	137	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	5.3	kW	Tj = - 7°C	COP _d	2.12	-
Tj = + 2°C	P _{dh}	3.2	kW	Tj = + 2°C	COP _d	3.43	-
Tj = + 7°C	P _{dh}	2.1	kW	Tj = + 7°C	COP _d	4.63	-
Tj = + 12°C	P _{dh}	1.4	kW	Tj = + 12°C	COP _d	5.70	-
Tj = température bivalente	P _{dh}	5.3	kW	Tj = température bivalente	COP _d	2.12	-
Tj = température limite d'exploitation	P _{dh}	5.0	kW	Tj = température limite d'exploitation	COP _d	1.81	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	1.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	2800	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/59	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	3557	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	6kW(chauffage 3kW);6kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 6kW(chauffage 3kW)) oui(pour 6kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus chaud

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	5.0	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	166	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	N/A	kW	Tj = - 7°C	COP _d	N/A	-
Tj = + 2°C	P _{dh}	5.0	kW	Tj = + 2°C	COP _d	2.37	-
Tj = + 7°C	P _{dh}	3.2	kW	Tj = + 7°C	COP _d	3.72	-
Tj = + 12°C	P _{dh}	1.6	kW	Tj = + 12°C	COP _d	5.41	-
Tj = température bivalente	P _{dh}	3.2	kW	Tj = température bivalente	COP _d	3.72	-
Tj = température limite d'exploitation	P _{dh}	5.0	kW	Tj = température limite d'exploitation	COP _d	2.37	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	2800	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/59	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	1580	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	6kW(chauffage 3kW);6kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 6kW(chauffage 3kW)) oui(pour 6kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus froid

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	5.0	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	133	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	3.1	kW	Tj = - 7°C	COP _d	2.49	-
Tj = + 2°C	P _{dh}	1.8	kW	Tj = + 2°C	COP _d	3.52	-
Tj = + 7°C	P _{dh}	1.2	kW	Tj = + 7°C	COP _d	4.10	-
Tj = + 12°C	P _{dh}	1.4	kW	Tj = + 12°C	COP _d	6.18	-
Tj = température bivalente	P _{dh}	4.0	kW	Tj = température bivalente	COP _d	1.74	-
Tj = température limite d'exploitation	P _{dh}	2.5	kW	Tj = température limite d'exploitation	COP _d	1.17	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	2.5	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	2800	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/59	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	4204	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	8kW(chauffage 3kW);8kW						
Pompe à chaleur air-eau	oui						
Pompe à chaleur eau-eau	non						
Pompe à chaleur eau glycolée-eau	non						
Pompe à chaleur basse température	non						
Équipée d'une résistance de chauffage supplémentaire	non(pour 8 kW(chauffage 3kW)) oui(pour 8kW)						
Chauffe-eau combiné avec pompe à chaleur	non						
Conditions climatiques déclarées ;	Moyen						
Les paramètres sont déclarés pour une application basse température;							
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	8	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	200	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	7.1	kW	Tj = - 7°C	COP _d	3.12	-
Tj = + 2°C	P _{dh}	4.7	kW	Tj = + 2°C	COP _d	4.99	-
Tj = + 7°C	P _{dh}	3.0	kW	Tj = + 7°C	COP _d	6.81	-
Tj = + 12°C	P _{dh}	1.7	kW	Tj = + 12°C	COP _d	8.00	-
Tj = température bivalente	P _{dh}	7.1	kW	Tj = température bivalente	COP _d	3.12	-
Tj = température limite d'exploitation	P _{dh}	6.5	kW	Tj = température limite d'exploitation	COP _d	2.84	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	1.5	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				
Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	4000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/60	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	3276	kWh				
Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C _{dh} = 0,9.							

Paramètres techniques

Modèle(s):	8kW(chauffage 3kW);8kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 8 kW(chauffage 3kW)) oui(pour 8kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus chaud

Les paramètres sont déclarés pour une application basse température;

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	8	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	278	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	N/A	kW	Tj = - 7°C	COPd	N/A	-
Tj = + 2°C	Pdh	7.7	kW	Tj = + 2°C	COPd	3.82	-
Tj = + 7°C	Pdh	5.0	kW	Tj = + 7°C	COPd	6.12	-
Tj = + 12°C	Pdh	2.6	kW	Tj = + 12°C	COPd	9.15	-
Tj = température bivalente	Pdh	5.0	kW	Tj = température bivalente	COPd	6.12	-
Tj = température limite d'exploitation	Pdh	7.7	kW	Tj = température limite d'exploitation	COPd	3.82	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	Pdh	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COPd	N/A	-
Température bivalente	Tbiv	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	Pcyh	N/A	kW	Efficacité de l'intervalle de cycle	COPcyc	N/A	-
Coefficient de dégradation (**)	Cdh	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.3	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	4000	m³/h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/60	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m³/h
Consommation annuelle d'énergie	Q _{HE}	1492	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si Cdh n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est Cdh = 0,9.

Paramètres techniques

Modèle(s):	8kW(chauffage 3kW);8kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 8 kW(chauffage 3kW)) oui(pour 8kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus froid

Les paramètres sont déclarés pour une application basse température;

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	7	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	167	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	4.4	kW	Tj = - 7°C	COPd	3.59	-
Tj = + 2°C	Pdh	2.6	kW	Tj = + 2°C	COPd	5.30	-
Tj = + 7°C	Pdh	1.6	kW	Tj = + 7°C	COPd	5.98	-
Tj = + 12°C	Pdh	1.9	kW	Tj = + 12°C	COPd	8.42	-
Tj = température bivalente	Pdh	5.7	kW	Tj = température bivalente	COPd	2.61	-
Tj = température limite d'exploitation	Pdh	4.0	kW	Tj = température limite d'exploitation	COPd	1.93	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	Pdh	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COPd	N/A	-
Température bivalente	Tbiv	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	Pcyc	N/A	kW	Efficacité de l'intervalle de cycle	COPcyc	N/A	-
Coefficient de dégradation (**)	Cdh	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	3.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	4000	m³/h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/60	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m³/h
Consommation annuelle d'énergie	Q _{HE}	4044	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si Cdh n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est Cdh = 0,9.

Paramètres techniques

Modèle(s):	8kW(chauffage 3kW);8kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 8 kW(chauffage 3kW)) oui(pour 8kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	Moyen

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	7	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	136	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	5.8	kW	Tj = - 7°C	COP _d	2.20	-
Tj = + 2°C	P _{dh}	3.7	kW	Tj = + 2°C	COP _d	3.37	-
Tj = + 7°C	P _{dh}	2.4	kW	Tj = + 7°C	COP _d	4.57	-
Tj = + 12°C	P _{dh}	1.6	kW	Tj = + 12°C	COP _d	5.87	-
Tj = température bivalente	P _{dh}	5.8	kW	Tj = température bivalente	COP _d	2.20	-
Tj = température limite d'exploitation	P _{dh}	5.0	kW	Tj = température limite d'exploitation	COP _d	1.84	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	2.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	4000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/60	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	3937	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	8kW(chauffage 3kW);8kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 8 kW(chauffage 3kW)) oui(pour 8kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus chaud

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	8	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	171	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	N/A	kW	Tj = - 7°C	COP _d	N/A	-
Tj = + 2°C	P _{dh}	7.4	kW	Tj = + 2°C	COP _d	2.52	-
Tj = + 7°C	P _{dh}	4.9	kW	Tj = + 7°C	COP _d	3.60	-
Tj = + 12°C	P _{dh}	2.2	kW	Tj = + 12°C	COP _d	5.80	-
Tj = température bivalente	P _{dh}	4.9	kW	Tj = température bivalente	COP _d	3.60	-
Tj = température limite d'exploitation	P _{dh}	7.4	kW	Tj = température limite d'exploitation	COP _d	2.52	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	3.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	4000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/60	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	2347	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	8kW(chauffage 3kW);8kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 8 kW(chauffage 3kW)) oui(pour 8kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus froid

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	6	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	115	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	3.8	kW	Tj = - 7°C	COP _d	2.48	-
Tj = + 2°C	P _{dh}	2.2	kW	Tj = + 2°C	COP _d	3.59	-
Tj = + 7°C	P _{dh}	1.4	kW	Tj = + 7°C	COP _d	4.08	-
Tj = + 12°C	P _{dh}	1.5	kW	Tj = + 12°C	COP _d	6.01	-
Tj = température bivalente	P _{dh}	4.8	kW	Tj = température bivalente	COP _d	1.87	-
Tj = température limite d'exploitation	P _{dh}	3.2	kW	Tj = température limite d'exploitation	COP _d	1.31	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	2.8	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	4000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/60	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	4891	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	10kW(chauffage 3kW);10kW						
Pompe à chaleur air-eau	oui						
Pompe à chaleur eau-eau	non						
Pompe à chaleur eau glycolée-eau	non						
Pompe à chaleur basse température	non						
Équipée d'une résistance de chauffage supplémentaire	non(pour 10 kW(chauffage 3kW)) oui(pour 10 kW)						
Chauffe-eau combiné avec pompe à chaleur	non						
Conditions climatiques déclarées ;	Moyen						
Les paramètres sont déclarés pour une application basse température;							
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	9	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	199	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	8.0	kW	Tj = - 7°C	COP _d	2.99	-
Tj = + 2°C	P _{dh}	5.0	kW	Tj = + 2°C	COP _d	4.97	-
Tj = + 7°C	P _{dh}	3.1	kW	Tj = + 7°C	COP _d	6.78	-
Tj = + 12°C	P _{dh}	2.0	kW	Tj = + 12°C	COP _d	9.10	-
Tj = température bivalente	P _{dh}	8.0	kW	Tj = température bivalente	COP _d	2.99	-
Tj = température limite d'exploitation	P _{dh}	7.3	kW	Tj = température limite d'exploitation	COP _d	2.72	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	1.7	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				
Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	4500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/61	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	3702	kWh				
Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si Cdh n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est Cdh = 0,9.							

Paramètres techniques

Modèle(s):	10kW(chauffage 3kW);10kW			
Pompe à chaleur air-eau	oui			
Pompe à chaleur eau-eau	non			
Pompe à chaleur eau glycolée-eau	non			
Pompe à chaleur basse température	non			
Équipée d'une résistance de chauffage supplémentaire	non(pour 10 kW(chauffage 3kW)) oui(pour 10 kW)			
Chauffe-eau combiné avec pompe à chaleur	non			
Conditions climatiques déclarées ;	plus chaud			
Les paramètres sont déclarés pour une application basse température;				
Article	Symbol	Valeur	Unité	
Puissance thermique nominale(*)	Puissance nominale	9	kW	Efficacité énergétique saisonnière du chauffage de l'espace
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j
T _j = - 7°C	Puissance nominale	N/A	kW	T _j = - 7°C
T _j = + 2°C	P _{dh}	8.4	kW	T _j = + 2°C
T _j = + 7°C	P _{dh}	5.5	kW	T _j = + 7°C
T _j = + 12°C	P _{dh}	2.4	kW	T _j = + 12°C
T _j = température bivalente	P _{dh}	5.5	kW	T _j = température bivalente
T _j = température limite d'exploitation	P _{dh}	8.4	kW	T _j = température limite d'exploitation
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage
Consommation électrique en dehors du mode actif				Chauffage d'appoint
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)
Mode thermostat éteint	P _{TO}	0.010	kW	p _{sup}
Mode veille	P _{SB}	0.010	kW	0.6
Mode chauffage du carter	P _{CK}	0.000	kW	KW
				Type d'entrée d'énergie
				Électrique
Autre articles				
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/61	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur
Consommation annuelle d'énergie	Q _{HE}	1694	kWh	-
Pour un chauffe-eau combiné avec pompe à chaleur :				4500
Profil de charge déclaré	N/A			m ³ /h
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Efficacité énergétique pour le chauffage de l'eau
Consommation annuelle d'électricité	AEC	N/A	kWh	η _{wh}
Détails de contact				N/A
Consultez la couverture arrière du manuel.				%
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T _j). (**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C _{dh} = 0,9.				Consommation quotidienne de combustible
				Q _{fuel}
				N/A
				Consommation annuelle de combustible
				AFC
				N/A
				GJ

Paramètres techniques

Modèle(s):	10 kW(chauffage 3kW);10 kW						
Pompe à chaleur air-eau	oui						
Pompe à chaleur eau-eau	non						
Pompe à chaleur eau glycolée-eau	non						
Pompe à chaleur basse température	non						
Équipée d'une résistance de chauffage supplémentaire	non(pour 10 kW(chauffage 3kW)) oui(pour 10 kW)						
Chauffe-eau combiné avec pompe à chaleur	non						
Conditions climatiques déclarées ;	plus froid						
Les paramètres sont déclarés pour une application basse température;							
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	8	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	170	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	4.7	kW	Tj = - 7°C	COP _d	3.50	-
Tj = + 2°C	P _{dh}	3.0	kW	Tj = + 2°C	COP _d	5.51	-
Tj = + 7°C	P _{dh}	2.0	kW	Tj = + 7°C	COP _d	6.63	-
Tj = + 12°C	P _{dh}	1.9	kW	Tj = + 12°C	COP _d	8.58	-
Tj = température bivalente	P _{dh}	6.3	kW	Tj = température bivalente	COP _d	2.56	-
Tj = température limite d'exploitation	P _{dh}	4.6	kW	Tj = température limite d'exploitation	COP _d	1.99	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	3.4	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				
Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	4500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/61	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	4417	kWh				
Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C _{dh} = 0,9.							

Paramètres techniques

Modèle(s):	10kW(chauffage 3kW);10 kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 10 kW(chauffage 3kW)) oui(pour 10 kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	Moyen

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	8	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	138	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	6.8	kW	Tj = - 7°C	COP _d	2.10	-
Tj = + 2°C	P _{dh}	4.2	kW	Tj = + 2°C	COP _d	3.44	-
Tj = + 7°C	P _{dh}	2.6	kW	Tj = + 7°C	COP _d	4.74	-
Tj = + 12°C	P _{dh}	1.8	kW	Tj = + 12°C	COP _d	6.22	-
Tj = température bivalente	P _{dh}	6.8	kW	Tj = température bivalente	COP _d	2.10	-
Tj = température limite d'exploitation	P _{dh}	5.2	kW	Tj = température limite d'exploitation	COP _d	1.83	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	2.8	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	4500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/61	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	4537	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	10kW(chauffage 3kW);10kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 10 kW(chauffage 3kW)) oui(pour 10 kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus chaud

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	8	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	179	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	N/A	kW	Tj = - 7°C	COP _d	N/A	-
Tj = + 2°C	P _{dh}	7.6	kW	Tj = + 2°C	COP _d	2.27	-
Tj = + 7°C	P _{dh}	5.2	kW	Tj = + 7°C	COP _d	3.92	-
Tj = + 12°C	P _{dh}	2.5	kW	Tj = + 12°C	COP _d	6.17	-
Tj = température bivalente	P _{dh}	5.2	kW	Tj = température bivalente	COP _d	3.92	-
Tj = température limite d'exploitation	P _{dh}	7.6	kW	Tj = température limite d'exploitation	COP _d	2.27	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.4	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	4500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/61	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	2353	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	10 kW(chauffage 3kW);10kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 10 kW(chauffage 3kW)) oui(pour 10 kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus froid

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	7	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	116	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	4.1	kW	Tj = - 7°C	COP _d	2.53	-
Tj = + 2°C	P _{dh}	2.6	kW	Tj = + 2°C	COP _d	3.51	-
Tj = + 7°C	P _{dh}	1.7	kW	Tj = + 7°C	COP _d	4.52	-
Tj = + 12°C	P _{dh}	1.7	kW	Tj = + 12°C	COP _d	6.51	-
Tj = température bivalente	P _{dh}	5.5	kW	Tj = température bivalente	COP _d	1.92	-
Tj = température limite d'exploitation	P _{dh}	2.8	kW	Tj = température limite d'exploitation	COP _d	1.24	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	4.2	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	4500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/61	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	5613	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	12 kW(chauffage 3kW);12kW						
Pompe à chaleur air-eau	oui						
Pompe à chaleur eau-eau	non						
Pompe à chaleur eau glycolée-eau	non						
Pompe à chaleur basse température	non						
Équipée d'une résistance de chauffage supplémentaire	non(pour 12 kW(chauffage 3kW)) oui(pour 12 kW)						
Chauffe-eau combiné avec pompe à chaleur	non						
Conditions climatiques déclarées ;	Moyen						
Les paramètres sont déclarés pour une application basse température;							
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	12	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	188	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	10.7	kW	T _j = - 7°C	COP _d	2.90	-
T _j = + 2°C	P _{dh}	7.0	kW	T _j = + 2°C	COP _d	4.53	-
T _j = + 7°C	P _{dh}	4.6	kW	T _j = + 7°C	COP _d	6.66	-
T _j = + 12°C	P _{dh}	4.2	kW	T _j = + 12°C	COP _d	8.92	-
T _j = température bivalente	P _{dh}	10.7	kW	T _j = température bivalente	COP _d	2.90	-
T _j = température limite d'exploitation	P _{dh}	11.4	kW	T _j = température limite d'exploitation	COP _d	2.63	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.6	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				
Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/64	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	5261	kWh				
Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T _j). (**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C _{dh} = 0,9.							

Paramètres techniques

Modèle(s):	12 kW(chauffage 3kW);12kW						
Pompe à chaleur air-eau	oui						
Pompe à chaleur eau-eau	non						
Pompe à chaleur eau glycolée-eau	non						
Pompe à chaleur basse température	non						
Équipée d'une résistance de chauffage supplémentaire	non(pour 12 kW(chauffage 3kW)) oui(pour 12 kW)						
Chauffe-eau combiné avec pompe à chaleur	non						
Conditions climatiques déclarées ;	plus chaud						
Les paramètres sont déclarés pour une application basse température;							
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	11	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	253	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	N/A	kW	T _j = - 7°C	COP _d	N/A	-
T _j = + 2°C	P _{dh}	11.1	kW	T _j = + 2°C	COP _d	3.62	-
T _j = + 7°C	P _{dh}	7.1	kW	T _j = + 7°C	COP _d	5.64	-
T _j = + 12°C	P _{dh}	4.7	kW	T _j = + 12°C	COP _d	8.33	-
T _j = température bivalente	P _{dh}	7.1	kW	T _j = température bivalente	COP _d	5.64	-
T _j = température limite d'exploitation	P _{dh}	11.1	kW	T _j = température limite d'exploitation	COP _d	3.62	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				
Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/64	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	2326	kWh				
Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T _j). (**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C _{dh} = 0,9.							

Paramètres techniques

Modèle(s):	12 kW(chauffage 3kW);12kW						
Pompe à chaleur air-eau	oui						
Pompe à chaleur eau-eau	non						
Pompe à chaleur eau glycolée-eau	non						
Pompe à chaleur basse température	non						
Équipée d'une résistance de chauffage supplémentaire	non(pour 12 kW(chauffage 3kW)) oui(pour 12 kW)						
Chauffe-eau combiné avec pompe à chaleur	non						
Conditions climatiques déclarées ;	plus froid						
Les paramètres sont déclarés pour une application basse température;							
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	11	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	163	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	7.2	kW	Tj = - 7°C	COP _d	3.51	-
Tj = + 2°C	P _{dh}	4.1	kW	Tj = + 2°C	COP _d	5.05	-
Tj = + 7°C	P _{dh}	3.2	kW	Tj = + 7°C	COP _d	6.18	-
Tj = + 12°C	P _{dh}	3.6	kW	Tj = + 12°C	COP _d	8.19	-
Tj = température bivalente	P _{dh}	9.3	kW	Tj = température bivalente	COP _d	2.59	-
Tj = température limite d'exploitation	P _{dh}	7.1	kW	Tj = température limite d'exploitation	COP _d	2.08	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	3.9	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				
Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/64	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	6746	kWh				
Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si Cdh n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est Cdh = 0,9.							

Paramètres techniques

Modèle(s):	12 kW(chauffage 3kW);12kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 12 kW(chauffage 3kW)) oui(pour 12 kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	Moyen

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	12	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	136	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	10.7	kW	T _j = - 7°C	COP _d	2.12	-
T _j = + 2°C	P _{dh}	6.6	kW	T _j = + 2°C	COP _d	3.29	-
T _j = + 7°C	P _{dh}	4.4	kW	T _j = + 7°C	COP _d	4.74	-
T _j = + 12°C	P _{dh}	4.0	kW	T _j = + 12°C	COP _d	7.28	-
T _j = température bivalente	P _{dh}	10.7	kW	T _j = température bivalente	COP _d	2.12	-
T _j = température limite d'exploitation	P _{dh}	9.9	kW	T _j = température limite d'exploitation	COP _d	1.82	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	2.1	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/64	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	7224	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	12 kW(chauffage 3kW);12kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 12 kW(chauffage 3kW)) oui(pour 12 kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus chaud

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	12	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	174	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	N/A	kW	Tj = - 7°C	COP _d	N/A	-
Tj = + 2°C	P _{dh}	12.1	kW	Tj = + 2°C	COP _d	2.27	-
Tj = + 7°C	P _{dh}	8.0	kW	Tj = + 7°C	COP _d	3.76	-
Tj = + 12°C	P _{dh}	4.3	kW	Tj = + 12°C	COP _d	5.95	-
Tj = température bivalente	P _{dh}	8.0	kW	Tj = température bivalente	COP _d	3.76	-
Tj = température limite d'exploitation	P _{dh}	12.1	kW	Tj = température limite d'exploitation	COP _d	2.27	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/64	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	3761	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	12 kW(chauffage 3kW);12kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 12 kW(chauffage 3kW)) oui(pour 12 kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus froid

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	10	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	119	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	6.7	kW	Tj = - 7°C	COP _d	2.58	-
Tj = + 2°C	P _{dh}	4.0	kW	Tj = + 2°C	COP _d	3.68	-
Tj = + 7°C	P _{dh}	2.9	kW	Tj = + 7°C	COP _d	4.57	-
Tj = + 12°C	P _{dh}	3.3	kW	Tj = + 12°C	COP _d	6.59	-
Tj = température bivalente	P _{dh}	8.5	kW	Tj = température bivalente	COP _d	1.84	-
Tj = température limite d'exploitation	P _{dh}	4.6	kW	Tj = température limite d'exploitation	COP _d	1.21	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	5.4	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/64	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	8470	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	14 kW(chauffage 3kW);14kW						
Pompe à chaleur air-eau	oui						
Pompe à chaleur eau-eau	non						
Pompe à chaleur eau glycolée-eau	non						
Pompe à chaleur basse température	non						
Équipée d'une résistance de chauffage supplémentaire	non(pour 14 kW(chauffage 3kW)) oui(pour 14 kW)						
Chauffe-eau combiné avec pompe à chaleur	non						
Conditions climatiques déclarées ;	Moyen						
Les paramètres sont déclarés pour une application basse température;							
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	14	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	182	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	12.4	kW	T _j = - 7°C	COP _d	2.80	-
T _j = + 2°C	P _{dh}	7.5	kW	T _j = + 2°C	COP _d	4.38	-
T _j = + 7°C	P _{dh}	5.2	kW	T _j = + 7°C	COP _d	6.53	-
T _j = + 12°C	P _{dh}	4.5	kW	T _j = + 12°C	COP _d	8.58	-
T _j = température bivalente	P _{dh}	12.4	kW	T _j = température bivalente	COP _d	2.80	-
T _j = température limite d'exploitation	P _{dh}	12.8	kW	T _j = température limite d'exploitation	COP _d	2.51	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	P _{sup}	1.2	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				
Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/66	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	6238	kWh				
Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T _j). (**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C _{dh} = 0,9.							

Paramètres techniques

Modèle(s):	14 kW(chauffage 3kW);14kW						
Pompe à chaleur air-eau	oui						
Pompe à chaleur eau-eau	non						
Pompe à chaleur eau glycolée-eau	non						
Pompe à chaleur basse température	non						
Équipée d'une résistance de chauffage supplémentaire	non(pour 14 kW(chauffage 3kW)) oui(pour 14 kW)						
Chauffe-eau combiné avec pompe à chaleur	non						
Conditions climatiques déclarées ;	plus chaud						
Les paramètres sont déclarés pour une application basse température;							
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	12	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	248	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	N/A	kW	Tj = - 7°C	COP _d	N/A	-
Tj = + 2°C	P _{dh}	12.3	kW	Tj = + 2°C	COP _d	3.40	-
Tj = + 7°C	P _{dh}	8.0	kW	Tj = + 7°C	COP _d	5.60	-
Tj = + 12°C	P _{dh}	4.2	kW	Tj = + 12°C	COP _d	7.94	-
Tj = température bivalente	P _{dh}	8.0	kW	Tj = température bivalente	COP _d	5.60	-
Tj = température limite d'exploitation	P _{dh}	12.3	kW	Tj = température limite d'exploitation	COP _d	3.40	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				
Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/66	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	2638	kWh				
Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C _{dh} = 0,9.							

Paramètres techniques

Modèle(s):	14 kW(chauffage 3kW);14 kW						
Pompe à chaleur air-eau	oui						
Pompe à chaleur eau-eau	non						
Pompe à chaleur eau glycolée-eau	non						
Pompe à chaleur basse température	non						
Équipée d'une résistance de chauffage supplémentaire	non(pour 14 kW(chauffage 3kW)) oui(pour 14 kW)						
Chauffe-eau combiné avec pompe à chaleur	non						
Conditions climatiques déclarées ;	plus froid						
Les paramètres sont déclarés pour une application basse température;							
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	13	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	156	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	8.2	kW	Tj = - 7°C	COP _d	3.35	-
Tj = + 2°C	P _{dh}	4.6	kW	Tj = + 2°C	COP _d	4.72	-
Tj = + 7°C	P _{dh}	3.4	kW	Tj = + 7°C	COP _d	6.10	-
Tj = + 12°C	P _{dh}	3.8	kW	Tj = + 12°C	COP _d	8.00	-
Tj = température bivalente	P _{dh}	10.6	kW	Tj = température bivalente	COP _d	2.55	-
Tj = température limite d'exploitation	P _{dh}	7.9	kW	Tj = température limite d'exploitation	COP _d	2.10	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	5.1	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				
Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/66	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	8111	kWh				
Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si Cdh n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est Cdh = 0,9.							

Paramètres techniques

Modèle(s):	14 kW(chauffage 3kW);14kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 12 kW(chauffage 3kW)) oui(pour 12 kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	Moyen

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	12	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	134	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	10.9	kW	Tj = - 7°C	COP _d	1.99	-
Tj = + 2°C	P _{dh}	6.9	kW	Tj = + 2°C	COP _d	3.26	-
Tj = + 7°C	P _{dh}	4.5	kW	Tj = + 7°C	COP _d	4.79	-
Tj = + 12°C	P _{dh}	4.0	kW	Tj = + 12°C	COP _d	7.25	-
Tj = température bivalente	P _{dh}	10.9	kW	Tj = température bivalente	COP _d	1.99	-
Tj = température limite d'exploitation	P _{dh}	10.3	kW	Tj = température limite d'exploitation	COP _d	1.81	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	1.7	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/66	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	7427	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	14 kW(chauffage 3kW);14kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 14 kW(chauffage 3kW)) oui(pour 14 kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus chaud

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	14	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	170	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	N/A	kW	Tj = - 7°C	COP _d	N/A	-
Tj = + 2°C	P _{dh}	13.1	kW	Tj = + 2°C	COP _d	2.25	-
Tj = + 7°C	P _{dh}	9.0	kW	Tj = + 7°C	COP _d	3.61	-
Tj = + 12°C	P _{dh}	4.1	kW	Tj = + 12°C	COP _d	5.94	-
Tj = température bivalente	P _{dh}	9.0	kW	Tj = température bivalente	COP _d	3.61	-
Tj = température limite d'exploitation	P _{dh}	13.1	kW	Tj = température limite d'exploitation	COP _d	2.25	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.9	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/66	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	4323	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	14 kW(chauffage 3kW);14kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 12 kW(chauffage 3kW)) oui(pour 12 kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus froid

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	11	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	117	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	7.2	kW	Tj = - 7°C	COP _d	2.58	-
Tj = + 2°C	P _{dh}	4.2	kW	Tj = + 2°C	COP _d	3.62	-
Tj = + 7°C	P _{dh}	3.1	kW	Tj = + 7°C	COP _d	4.77	-
Tj = + 12°C	P _{dh}	3.6	kW	Tj = + 12°C	COP _d	6.40	-
Tj = température bivalente	P _{dh}	8.9	kW	Tj = température bivalente	COP _d	1.82	-
Tj = température limite d'exploitation	P _{dh}	4.4	kW	Tj = température limite d'exploitation	COP _d	1.16	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	6.6	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/66	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	8975	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	16 kW(chauffage 3kW);16kW						
Pompe à chaleur air-eau	oui						
Pompe à chaleur eau-eau	non						
Pompe à chaleur eau glycolée-eau	non						
Pompe à chaleur basse température	non						
Équipée d'une résistance de chauffage supplémentaire	non(pour 16 kW(chauffage 3kW)) oui(pour 16 kW)						
Chauffe-eau combiné avec pompe à chaleur	non						
Conditions climatiques déclarées ;	Moyen						
Les paramètres sont déclarés pour une application basse température;							
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	15	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	179	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	13.4	kW	T _j = - 7°C	COP _d	2.66	-
T _j = + 2°C	P _{dh}	8.0	kW	T _j = + 2°C	COP _d	4.33	-
T _j = + 7°C	P _{dh}	5.4	kW	T _j = + 7°C	COP _d	6.48	-
T _j = + 12°C	P _{dh}	4.6	kW	T _j = + 12°C	COP _d	8.96	-
T _j = température bivalente	P _{dh}	13.4	kW	T _j = température bivalente	COP _d	2.66	-
T _j = température limite d'exploitation	P _{dh}	13.4	kW	T _j = température limite d'exploitation	COP _d	2.46	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	P _{sup}	1.6	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				
Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	6000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/68	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	6863	kWh				
Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T _j). (**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C _{dh} = 0,9.							

Paramètres techniques

Modèle(s):	16 kW(chauffage 3kW);16kW						
Pompe à chaleur air-eau	oui						
Pompe à chaleur eau-eau	non						
Pompe à chaleur eau glycolée-eau	non						
Pompe à chaleur basse température	non						
Équipée d'une résistance de chauffage supplémentaire	non(pour 16 kW(chauffage 3kW)) oui(pour 16 kW)						
Chauffe-eau combiné avec pompe à chaleur	non						
Conditions climatiques déclarées ;	plus chaud						
Les paramètres sont déclarés pour une application basse température;							
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	13	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	239	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	N/A	kW	Tj = - 7°C	COP _d	N/A	-
Tj = + 2°C	P _{dh}	13.3	kW	Tj = + 2°C	COP _d	3.33	-
Tj = + 7°C	P _{dh}	8.5	kW	Tj = + 7°C	COP _d	5.19	-
Tj = + 12°C	P _{dh}	4.8	kW	Tj = + 12°C	COP _d	7.95	-
Tj = température bivalente	P _{dh}	8.5	kW	Tj = température bivalente	COP _d	5.19	-
Tj = température limite d'exploitation	P _{dh}	13.3	kW	Tj = température limite d'exploitation	COP _d	3.33	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				
Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	6000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/68	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	2934	kWh				
Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C _{dh} = 0,9.							

Paramètres techniques

Modèle(s):	16 kW(chauffage 3kW);16kW						
Pompe à chaleur air-eau	oui						
Pompe à chaleur eau-eau	non						
Pompe à chaleur eau glycolée-eau	non						
Pompe à chaleur basse température	non						
Équipée d'une résistance de chauffage supplémentaire	non(pour 16 kW(chauffage 3kW)) oui(pour 16 kW)						
Chauffe-eau combiné avec pompe à chaleur	non						
Conditions climatiques déclarées ;	plus froid						
Les paramètres sont déclarés pour une application basse température;							
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	14	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	156	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	9.1	kW	T _j = - 7°C	COP _d	3.30	-
T _j = + 2°C	P _{dh}	5.0	kW	T _j = + 2°C	COP _d	4.87	-
T _j = + 7°C	P _{dh}	4.2	kW	T _j = + 7°C	COP _d	6.50	-
T _j = + 12°C	P _{dh}	3.7	kW	T _j = + 12°C	COP _d	7.59	-
T _j = température bivalente	P _{dh}	11.3	kW	T _j = température bivalente	COP _d	2.28	-
T _j = température limite d'exploitation	P _{dh}	9.8	kW	T _j = température limite d'exploitation	COP _d	1.89	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	P _{sup}	4.2	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				
Autre articles							
Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	6000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/68	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	8618	kWh				
Pour un chauffe-eau combiné avec pompe à chaleur :							
Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						
(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T _j). (**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C _{dh} = 0,9.							

Paramètres techniques

Modèle(s):	16 kW(chauffage 3kW);16kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 16 kW(chauffage 3kW)) oui(pour 16 kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	Moyen

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	13	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	136	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	11.3	kW	Tj = - 7°C	COP _d	2.04	-
Tj = + 2°C	P _{dh}	7.3	kW	Tj = + 2°C	COP _d	3.31	-
Tj = + 7°C	P _{dh}	4.8	kW	Tj = + 7°C	COP _d	4.81	-
Tj = + 12°C	P _{dh}	4.0	kW	Tj = + 12°C	COP _d	7.35	-
Tj = température bivalente	P _{dh}	11.3	kW	Tj = température bivalente	COP _d	2.04	-
Tj = température limite d'exploitation	P _{dh}	11.2	kW	Tj = température limite d'exploitation	COP _d	1.72	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-102	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	1.8	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	6000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/68	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	7593	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	16 kW(chauffage 3kW);16kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 16 kW(chauffage 3kW)) oui(pour 16 kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus chaud

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	14	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	171	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	N/A	kW	Tj = - 7°C	COP _d	N/A	-
Tj = + 2°C	P _{dh}	13.2	kW	Tj = + 2°C	COP _d	2.30	-
Tj = + 7°C	P _{dh}	9.0	kW	Tj = + 7°C	COP _d	3.68	-
Tj = + 12°C	P _{dh}	4.1	kW	Tj = + 12°C	COP _d	5.80	-
Tj = température bivalente	P _{dh}	9.0	kW	Tj = température bivalente	COP _d	3.68	-
Tj = température limite d'exploitation	P _{dh}	13.2	kW	Tj = température limite d'exploitation	COP _d	2.30	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.8	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	6000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/68	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	4329	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	16 kW(chauffage 3kW);16kW
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	non(pour 16 kW(chauffage 3kW)) oui(pour 16 kW)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus froid

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	12	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	121	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = - 7°C	Puissance nominale	7.7	kW	Tj = - 7°C	COP _d	2.61	-
Tj = + 2°C	P _{dh}	4.5	kW	Tj = + 2°C	COP _d	3.78	-
Tj = + 7°C	P _{dh}	3.2	kW	Tj = + 7°C	COP _d	4.87	-
Tj = + 12°C	P _{dh}	3.6	kW	Tj = + 12°C	COP _d	6.39	-
Tj = température bivalente	P _{dh}	9.6	kW	Tj = température bivalente	COP _d	1.84	-
Tj = température limite d'exploitation	P _{dh}	5.1	kW	Tj = température limite d'exploitation	COP _d	1.04	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P _{cych}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	6.9	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	6000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/68	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	9389	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	3 - PH 12kw (chauffage 9kw); 3 - PH 12kw (chauffage 6kw); 3 - PH 12kw (chauffage 3kW); 3 - PH 12kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 12kw (chauffage 9kw); 3 - PH 12kw (chauffage 6kw); 3 - PH 12kw (chauffage 3kW)) Aucun (pour 3 - PH 12kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	Moyen

Les paramètres sont déclarés pour une application basse température;

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	12	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	187	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = -7°C	Puissance nominale	10.7	kW	Tj = -7°C	COP _d	2.90	-
Tj = +2°C	P _{dh}	7.0	kW	Tj = +2°C	COP _d	4.53	-
Tj = +7°C	P _{dh}	4.6	kW	Tj = +7°C	COP _d	6.65	-
Tj = +12°C	P _{dh}	4.2	kW	Tj = +12°C	COP _d	8.92	-
Tj = température bivalente	P _{dh}	10.7	kW	Tj = température bivalente	COP _d	2.90	-
Tj = température limite d'exploitation	P _{dh}	11.4	kW	Tj = température limite d'exploitation	COP _d	2.63	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.6	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/64	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	5256	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	3 - PH 12kw (chauffage 9kw); 3 - PH 12kw (chauffage 6kw); 3 - PH 12kw (chauffage 3kW); 3 - PH 12kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 12kw (chauffage 9kw); 3 - PH 12kw (chauffage 6kw); 3 - PH 12kw (chauffage 3kW)) Aucun (pour 3 - PH 12kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus chaud

Les paramètres sont déclarés pour une application basse température;

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	11	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	253	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	N/A	kW	T _j = - 7°C	COP _d	N/A	-
T _j = + 2°C	P _{dh}	11.1	kW	T _j = + 2°C	COP _d	3.62	-
T _j = + 7°C	P _{dh}	7.2	kW	T _j = + 7°C	COP _d	5.64	-
T _j = + 12°C	P _{dh}	4.7	kW	T _j = + 12°C	COP _d	8.34	-
T _j = température bivalente	P _{dh}	7.2	kW	T _j = température bivalente	COP _d	5.64	-
T _j = température limite d'exploitation	P _{dh}	11.1	kW	T _j = température limite d'exploitation	COP _d	3.62	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/64	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	2325	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	3 - PH 12kw (chauffage 9kw); 3 - PH 12kw (chauffage 6kw); 3 - PH 12kw (chauffage 3kW); 3 - PH 12kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 12kw (chauffage 9kw); 3 - PH 12kw (chauffage 6kw); 3 - PH 12kw (chauffage 3kW)) Aucun (pour 3 - PH 12kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus froid

Les paramètres sont déclarés pour une application basse température;

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	11	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	163	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	7.2	kW	T _j = - 7°C	COP _d	3.51	-
T _j = + 2°C	P _{dh}	4.2	kW	T _j = + 2°C	COP _d	5.06	-
T _j = + 7°C	P _{dh}	3.2	kW	T _j = + 7°C	COP _d	6.20	-
T _j = + 12°C	P _{dh}	3.6	kW	T _j = + 12°C	COP _d	8.19	-
T _j = température bivalente	P _{dh}	9.3	kW	T _j = température bivalente	COP _d	2.59	-
T _j = température limite d'exploitation	P _{dh}	7.1	kW	T _j = température limite d'exploitation	COP _d	2.08	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	3.9	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/64	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	6738	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	3 - PH 12kw (chauffage 9kw); 3 - PH 12kw (chauffage 6kw); 3 - PH 12kw (chauffage 3kW); 3 - PH 12kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 12kw (chauffage 9kw); 3 - PH 12kw (chauffage 6kw); 3 - PH 12kw (chauffage 3kW)) Aucun (pour 3 - PH 12kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	Moyen

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	12	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	138	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	10.7	kW	T _j = - 7°C	COP _d	2.13	-
T _j = + 2°C	P _{dh}	6.6	kW	T _j = + 2°C	COP _d	3.33	-
T _j = + 7°C	P _{dh}	4.4	kW	T _j = + 7°C	COP _d	4.88	-
T _j = + 12°C	P _{dh}	4.0	kW	T _j = + 12°C	COP _d	7.67	-
T _j = température bivalente	P _{dh}	10.7	kW	T _j = température bivalente	COP _d	2.13	-
T _j = température limite d'exploitation	P _{dh}	10.0	kW	T _j = température limite d'exploitation	COP _d	1.82	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	2.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/64	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	7085	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	3 - PH 12kw (chauffage 9kw); 3 - PH 12kw (chauffage 6kw); 3 - PH 12kw (chauffage 3kW); 3 - PH 12kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 12kw (chauffage 9kw); 3 - PH 12kw (chauffage 6kw); 3 - PH 12kw (chauffage 3kW)) Aucun (pour 3 - PH 12kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus chaud

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	12	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	175	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T_j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T_j			
$T_j = -7^\circ\text{C}$	Puissance nominale	N/A	kW	$T_j = -7^\circ\text{C}$	COP_d	N/A	-
$T_j = +2^\circ\text{C}$	P_{dh}	12.1	kW	$T_j = +2^\circ\text{C}$	COP_d	2.27	-
$T_j = +7^\circ\text{C}$	P_{dh}	8.0	kW	$T_j = +7^\circ\text{C}$	COP_d	3.85	-
$T_j = +12^\circ\text{C}$	P_{dh}	4.3	kW	$T_j = +12^\circ\text{C}$	COP_d	5.95	-
T_j = température bivalente	P_{dh}	8.0	kW	T_j = température bivalente	COP_d	3.85	-
T_j = température limite d'exploitation	P_{dh}	12.1	kW	T_j = température limite d'exploitation	COP_d	2.27	-
Pour les pompes à chaleur air-eau : $T_j = -15^\circ\text{C}$ (si TOL < -20°C)	P_{dh}	N/A	kW	Pour les pompes à chaleur air-eau : $T_j = -15^\circ\text{C}$ (si TOL < -20°C)	COP_d	N/A	-
Température bivalente	T_{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P_{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP_{cyc}	N/A	-
Coefficient de dégradation (**)	C_{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P_{OFF}	0.010	kW	Puissance thermique nominale (**)	p_{sup}	0.6	KW
Mode thermostat éteint	P_{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P_{SB}	0.010	kW				
Mode chauffage du carter	P_{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L_{WA}	-/64	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q_{HE}	3733	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q_{elec}	N/A	kWh	Consommation quotidienne de combustible	Q_{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est $C_{dh} = 0,9$.

Paramètres techniques

Modèle(s):	3 - PH 12kw (chauffage 9kw); 3 - PH 12kw (chauffage 6kw); 3 - PH 12kw (chauffage 3kW); 3 - PH 12kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 12kw (chauffage 9kw); 3 - PH 12kw (chauffage 6kw); 3 - PH 12kw (chauffage 3kW)) Aucun (pour 3 - PH 12kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus froid

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	10	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	119	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de Tj				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de Tj			
Tj = -7°C	Puissance nominale	6.7	kW	Tj = -7°C	COP _d	2.58	-
Tj = +2°C	P _{dh}	4.0	kW	Tj = +2°C	COP _d	3.68	-
Tj = +7°C	P _{dh}	2.9	kW	Tj = +7°C	COP _d	4.57	-
Tj = +12°C	P _{dh}	3.3	kW	Tj = +12°C	COP _d	6.59	-
Tj = température bivalente	P _{dh}	8.5	kW	Tj = température bivalente	COP _d	1.89	-
Tj = température limite d'exploitation	P _{dh}	4.7	kW	Tj = température limite d'exploitation	COP _d	1.21	-
Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : Tj = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	5.3	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/64	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	8459	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(Tj). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	3 - PH 14kw (chauffage 9kw); 3 - PH 14kw (chauffage 6kw); 3 - PH 14kw (chauffage 3kW); 3 - PH 14kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 14kw (chauffage 9kw); 3 - PH 14kw (chauffage 6kw); 3 - PH 14kw (chauffage 3kW)) Aucun (pour 3 - PH 14kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	Moyen

Les paramètres sont déclarés pour une application basse température;

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	14	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	182	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	12.4	kW	T _j = - 7°C	COP _d	2.80	-
T _j = + 2°C	P _{dh}	7.5	kW	T _j = + 2°C	COP _d	4.40	-
T _j = + 7°C	P _{dh}	5.1	kW	T _j = + 7°C	COP _d	6.38	-
T _j = + 12°C	P _{dh}	4.9	kW	T _j = + 12°C	COP _d	9.16	-
T _j = température bivalente	P _{dh}	12.4	kW	T _j = température bivalente	COP _d	2.80	-
T _j = température limite d'exploitation	P _{dh}	12.9	kW	T _j = température limite d'exploitation	COP _d	2.63	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	1.1	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/66	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	6237	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	3 - PH 14kw (chauffage 9kw); 3 - PH 14kw (chauffage 6kw); 3 - PH 14kw (chauffage 3kW); 3 - PH 14kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 14kw (chauffage 9kw); 3 - PH 14kw (chauffage 6kw); 3 - PH 14kw (chauffage 3kW)) Aucun (pour 3 - PH 14kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus chaud

Les paramètres sont déclarés pour une application basse température;

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	12	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	248	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	N/A	kW	T _j = - 7°C	COP _d	N/A	-
T _j = + 2°C	P _{dh}	12.3	kW	T _j = + 2°C	COP _d	3.41	-
T _j = + 7°C	P _{dh}	8.0	kW	T _j = + 7°C	COP _d	5.61	-
T _j = + 12°C	P _{dh}	4.2	kW	T _j = + 12°C	COP _d	7.94	-
T _j = température bivalente	P _{dh}	8.0	kW	T _j = température bivalente	COP _d	5.61	-
T _j = température limite d'exploitation	P _{dh}	12.3	kW	T _j = température limite d'exploitation	COP _d	3.41	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/66	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	2638	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	3 - PH 14kw (chauffage 9kw); 3 - PH 14kw (chauffage 6kw); 3 - PH 14kw (chauffage 3kW); 3 - PH 14kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 14kw (chauffage 9kw); 3 - PH 14kw (chauffage 6kw); 3 - PH 14kw (chauffage 3kW)) Aucun (pour 3 - PH 14kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus chaud

Les paramètres sont déclarés pour une application basse température;

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	12	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	248	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	N/A	kW	T _j = - 7°C	COP _d	N/A	-
T _j = + 2°C	P _{dh}	12.3	kW	T _j = + 2°C	COP _d	3.41	-
T _j = + 7°C	P _{dh}	8.0	kW	T _j = + 7°C	COP _d	5.61	-
T _j = + 12°C	P _{dh}	4.2	kW	T _j = + 12°C	COP _d	7.94	-
T _j = température bivalente	P _{dh}	8.0	kW	T _j = température bivalente	COP _d	5.61	-
T _j = température limite d'exploitation	P _{dh}	12.3	kW	T _j = température limite d'exploitation	COP _d	3.41	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/66	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	2638	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	3 - PH 14kw (chauffage 9kw); 3 - PH 14kw (chauffage 6kw); 3 - PH 14kw (chauffage 3kW); 3 - PH 14kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 14kw (chauffage 9kw); 3 - PH 14kw (chauffage 6kw); 3 - PH 14kw (chauffage 3kW)) Aucun (pour 3 - PH 14kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus chaud

Les paramètres sont déclarés pour une application basse température;

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	12	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	248	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	N/A	kW	T _j = - 7°C	COP _d	N/A	-
T _j = + 2°C	P _{dh}	12.3	kW	T _j = + 2°C	COP _d	3.41	-
T _j = + 7°C	P _{dh}	8.0	kW	T _j = + 7°C	COP _d	5.61	-
T _j = + 12°C	P _{dh}	4.2	kW	T _j = + 12°C	COP _d	7.94	-
T _j = température bivalente	P _{dh}	8.0	kW	T _j = température bivalente	COP _d	5.61	-
T _j = température limite d'exploitation	P _{dh}	12.3	kW	T _j = température limite d'exploitation	COP _d	3.41	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/66	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	2638	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	3 - PH 14kw (chauffage 9kw); 3 - PH 14kw (chauffage 6kw); 3 - PH 14kw (chauffage 3kW); 3 - PH 14kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 14kw (chauffage 9kw); 3 - PH 14kw (chauffage 6kw); 3 - PH 14kw (chauffage 3kW)) Aucun (pour 3 - PH 14kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus chaud

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	14	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	170	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	N/A	kW	T _j = - 7°C	COP _d	N/A	-
T _j = + 2°C	P _{dh}	13.1	kW	T _j = + 2°C	COP _d	2.25	-
T _j = + 7°C	P _{dh}	9.0	kW	T _j = + 7°C	COP _d	3.61	-
T _j = + 12°C	P _{dh}	4.1	kW	T _j = + 12°C	COP _d	5.94	-
T _j = température bivalente	P _{dh}	9.0	kW	T _j = température bivalente	COP _d	3.61	-
T _j = température limite d'exploitation	P _{dh}	13.1	kW	T _j = température limite d'exploitation	COP _d	2.25	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.0	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/66	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	4320	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ

Détails de contact Consultez la couverture arrière du manuel.

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	3 - PH 14kw (chauffage 9kw); 3 - PH 14kw (chauffage 6kw); 3 - PH 14kw (chauffage 3kW); 3 - PH 14kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 14kw (chauffage 9kw); 3 - PH 14kw (chauffage 6kw); 3 - PH 14kw (chauffage 3kW)) Aucun (pour 3 - PH 14kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus froid

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	11	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	117	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	7.2	kW	T _j = - 7°C	COP _d	2.56	-
T _j = + 2°C	P _{dh}	4.3	kW	T _j = + 2°C	COP _d	3.62	-
T _j = + 7°C	P _{dh}	3.1	kW	T _j = + 7°C	COP _d	4.77	-
T _j = + 12°C	P _{dh}	3.6	kW	T _j = + 12°C	COP _d	6.40	-
T _j = température bivalente	P _{dh}	8.9	kW	T _j = température bivalente	COP _d	1.82	-
T _j = température limite d'exploitation	P _{dh}	4.4	kW	T _j = température limite d'exploitation	COP _d	1.16	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	6.6	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	5500	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/66	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	8967	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	3 - PH 16kw (chauffage 9kw); 3 - PH 16kw (chauffage 6kw); 3 - PH 16kw (chauffage 3kW); 3 - PH 16kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 16kw (chauffage 9kw); 3 - PH 16kw (chauffage 6kw); 3 - PH 16kw (chauffage 3kW)) Aucun (pour 3 - PH 16kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	Moyen

Les paramètres sont déclarés pour une application basse température;

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	15	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	179	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T_j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T_j			
$T_j = -7^\circ\text{C}$	Puissance nominale	13.4	kW	$T_j = -7^\circ\text{C}$	COP_d	2.60	-
$T_j = +2^\circ\text{C}$	P_{dh}	8.0	kW	$T_j = +2^\circ\text{C}$	COP_d	4.39	-
$T_j = +7^\circ\text{C}$	P_{dh}	5.4	kW	$T_j = +7^\circ\text{C}$	COP_d	6.44	-
$T_j = +12^\circ\text{C}$	P_{dh}	4.6	kW	$T_j = +12^\circ\text{C}$	COP_d	8.92	-
$T_j =$ température bivalente	P_{dh}	13.4	kW	$T_j =$ température bivalente	COP_d	2.60	-
$T_j =$ température limite d'exploitation	P_{dh}	13.4	kW	$T_j =$ température limite d'exploitation	COP_d	2.44	-
Pour les pompes à chaleur air-eau : $T_j = -15^\circ\text{C}$ (si $\text{TOL} < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Pour les pompes à chaleur air-eau : $T_j = -15^\circ\text{C}$ (si $\text{TOL} < -20^\circ\text{C}$)	COP_d	N/A	-
Température bivalente	T_{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P_{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP_{cyc}	N/A	-
Coefficient de dégradation (**)	C_{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P_{OFF}	0.010	kW	Puissance thermique nominale (**)	p_{sup}	1.6	KW
Mode thermostat éteint	P_{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P_{SB}	0.010	kW				
Mode chauffage du carter	P_{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	6000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L_{WA}	-/68	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q_{HE}	6838	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q_{elec}	N/A	kWh	Consommation quotidienne de combustible	Q_{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est $C_{dh} = 0,9$.

Paramètres techniques

Modèle(s):	3 - PH 16kw (chauffage 9kw); 3 - PH 16kw (chauffage 6kw); 3 - PH 16kw (chauffage 3kW); 3 - PH 16kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 16kw (chauffage 9kw); 3 - PH 16kw (chauffage 6kw); 3 - PH 16kw (chauffage 3kW)) Aucun (pour 3 - PH 16kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus chaud

Les paramètres sont déclarés pour une application basse température;

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	13	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	239	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T_j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T_j			
$T_j = -7^\circ\text{C}$	Puissance nominale	N/A	kW	$T_j = -7^\circ\text{C}$	COP_d	N/A	-
$T_j = +2^\circ\text{C}$	P_{dh}	13.3	kW	$T_j = +2^\circ\text{C}$	COP_d	3.33	-
$T_j = +7^\circ\text{C}$	P_{dh}	8.6	kW	$T_j = +7^\circ\text{C}$	COP_d	5.20	-
$T_j = +12^\circ\text{C}$	P_{dh}	4.8	kW	$T_j = +12^\circ\text{C}$	COP_d	7.95	-
T_j = température bivalente	P_{dh}	8.6	kW	T_j = température bivalente	COP_d	5.20	-
T_j = température limite d'exploitation	P_{dh}	13.3	kW	T_j = température limite d'exploitation	COP_d	3.33	-
Pour les pompes à chaleur air-eau : $T_j = -15^\circ\text{C}$ (si $\text{TOL} < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Pour les pompes à chaleur air-eau : $T_j = -15^\circ\text{C}$ (si $\text{TOL} < -20^\circ\text{C}$)	COP_d	N/A	-
Température bivalente	T_{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P_{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP_{cyc}	N/A	-
Coefficient de dégradation (**)	C_{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P_{OFF}	0.010	kW	Puissance thermique nominale (**)	p_{sup}	0.0	KW
Mode thermostat éteint	P_{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P_{SB}	0.010	kW				
Mode chauffage du carter	P_{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	6000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L_{WA}	-/68	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q_{HE}	2933	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q_{elec}	N/A	kWh	Consommation quotidienne de combustible	Q_{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est $C_{dh} = 0,9$.

Paramètres techniques

Modèle(s):	3 - PH 16kw (chauffage 9kw); 3 - PH 16kw (chauffage 6kw); 3 - PH 16kw (chauffage 3kW); 3 - PH 16kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 16kw (chauffage 9kw); 3 - PH 16kw (chauffage 6kw); 3 - PH 16kw (chauffage 3kW)) Aucun (pour 3 - PH 16kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus froid

Les paramètres sont déclarés pour une application basse température;

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	14	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	156	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	9.1	kW	T _j = - 7°C	COP _d	3.32	-
T _j = + 2°C	P _{dh}	5.0	kW	T _j = + 2°C	COP _d	4.88	-
T _j = + 7°C	P _{dh}	4.2	kW	T _j = + 7°C	COP _d	6.50	-
T _j = + 12°C	P _{dh}	3.7	kW	T _j = + 12°C	COP _d	7.59	-
T _j = température bivalente	P _{dh}	11.3	kW	T _j = température bivalente	COP _d	2.28	-
T _j = température limite d'exploitation	P _{dh}	9.8	kW	T _j = température limite d'exploitation	COP _d	1.89	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	4.2	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	6000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/68	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	8597	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	3 - PH 16kw (chauffage 9kw); 3 - PH 16kw (chauffage 6kw); 3 - PH 16kw (chauffage 3kW); 3 - PH 16kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 16kw (chauffage 9kw); 3 - PH 16kw (chauffage 6kw); 3 - PH 16kw (chauffage 3kW)) Aucun (pour 3 - PH 16kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	Moyen

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	13	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	136	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	11.3	kW	T _j = - 7°C	COP _d	2.04	-
T _j = + 2°C	P _{dh}	7.3	kW	T _j = + 2°C	COP _d	3.33	-
T _j = + 7°C	P _{dh}	4.8	kW	T _j = + 7°C	COP _d	4.81	-
T _j = + 12°C	P _{dh}	4.0	kW	T _j = + 12°C	COP _d	7.36	-
T _j = température bivalente	P _{dh}	11.3	kW	T _j = température bivalente	COP _d	2.04	-
T _j = température limite d'exploitation	P _{dh}	11.3	kW	T _j = température limite d'exploitation	COP _d	1.78	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	-7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-10	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	1.7	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	6000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/68	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	7571	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	3 - PH 16kw (chauffage 9kw); 3 - PH 16kw (chauffage 6kw); 3 - PH 16kw (chauffage 3kW); 3 - PH 16kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 16kw (chauffage 9kw); 3 - PH 16kw (chauffage 6kw); 3 - PH 16kw (chauffage 3kW)) Aucun (pour 3 - PH 16kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus chaud

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	14	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	171	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T _j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T _j			
T _j = - 7°C	Puissance nominale	N/A	kW	T _j = - 7°C	COP _d	N/A	-
T _j = + 2°C	P _{dh}	13.2	kW	T _j = + 2°C	COP _d	2.32	-
T _j = + 7°C	P _{dh}	9.1	kW	T _j = + 7°C	COP _d	3.70	-
T _j = + 12°C	P _{dh}	4.1	kW	T _j = + 12°C	COP _d	5.80	-
T _j = température bivalente	P _{dh}	9.1	kW	T _j = température bivalente	COP _d	3.70	-
T _j = température limite d'exploitation	P _{dh}	13.2	kW	T _j = température limite d'exploitation	COP _d	2.32	-
Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	P _{dh}	N/A	kW	Pour les pompes à chaleur air-eau : T _j = -15°C (si TOL < -20°C)	COP _d	N/A	-
Température bivalente	T _{biv}	7	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	2	°C
Capacité de cycle pour le chauffage	P _{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP _{cyc}	N/A	-
Coefficient de dégradation (**)	C _{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P _{OFF}	0.010	kW	Puissance thermique nominale (**)	p _{sup}	0.8	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P _{SB}	0.010	kW				
Mode chauffage du carter	P _{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	6000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L _{WA}	-/68	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q _{HE}	4321	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q _{elec}	N/A	kWh	Consommation quotidienne de combustible	Q _{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est C_{dh} = 0,9.

Paramètres techniques

Modèle(s):	3 - PH 16kw (chauffage 9kw); 3 - PH 16kw (chauffage 6kw); 3 - PH 16kw (chauffage 3kW); 3 - PH 16kw
Pompe à chaleur air-eau	oui
Pompe à chaleur eau-eau	non
Pompe à chaleur eau glycolée-eau	non
Pompe à chaleur basse température	non
Équipée d'une résistance de chauffage supplémentaire	Oui (pour 3 - PH 16kw (chauffage 9kw); 3 - PH 16kw (chauffage 6kw); 3 - PH 16kw (chauffage 3kW)) Aucun (pour 3 - PH 16kw)
Chauffe-eau combiné avec pompe à chaleur	non
Conditions climatiques déclarées ;	plus froid

Les paramètres sont déclarés pour une application moyenne température.

Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale	12	kW	Efficacité énergétique saisonnière du chauffage de l'espace	η_s	121	%
Capacité déclarée pour le chauffage en charge partielle à une température intérieure de 20 °C et une température extérieure de T_j				Capacité déclarée de chauffage pour une charge partielle à une température intérieure de 20°C et une température extérieure de T_j			
$T_j = -7^\circ\text{C}$	Puissance nominale	7.8	kW	$T_j = -7^\circ\text{C}$	COP_d	2.64	-
$T_j = +2^\circ\text{C}$	P_{dh}	4.5	kW	$T_j = +2^\circ\text{C}$	COP_d	3.78	-
$T_j = +7^\circ\text{C}$	P_{dh}	3.2	kW	$T_j = +7^\circ\text{C}$	COP_d	4.87	-
$T_j = +12^\circ\text{C}$	P_{dh}	3.7	kW	$T_j = +12^\circ\text{C}$	COP_d	6.40	-
T_j = température bivalente	P_{dh}	9.6	kW	T_j = température bivalente	COP_d	1.85	-
T_j = température limite d'exploitation	P_{dh}	5.1	kW	T_j = température limite d'exploitation	COP_d	1.04	-
Pour les pompes à chaleur air-eau : $T_j = -15^\circ\text{C}$ (si $\text{TOL} < -20^\circ\text{C}$)	P_{dh}	N/A	kW	Pour les pompes à chaleur air-eau : $T_j = -15^\circ\text{C}$ (si $\text{TOL} < -20^\circ\text{C}$)	COP_d	N/A	-
Température bivalente	T_{biv}	-15	°C	Pour les pompes à chaleur air-eau : température limite d'exploitation	TOL	-22	°C
Capacité de cycle pour le chauffage	P_{cyc}	N/A	kW	Efficacité de l'intervalle de cycle	COP_{cyc}	N/A	-
Coefficient de dégradation (**)	C_{dh}	0.9	kW	Température limite de fonctionnement de l'eau de chauffage	WTOL	65	°C
Consommation électrique en dehors du mode actif				Chauffage d'appoint			
Mode hors tension	P_{OFF}	0.010	kW	Puissance thermique nominale (**)	p_{sup}	6.9	KW
Mode thermostat éteint	P_{TO}	0.010	kW	Type d'entrée d'énergie	Électrique		
Mode veille	P_{SB}	0.010	kW				
Mode chauffage du carter	P_{CK}	0.000	kW				

Autre articles

Contrôle de la capacité	variables			Pour les pompes à chaleur air-eau : Débit d'air nominal, à l'extérieur	-	6000	m ³ /h
Niveau de puissance sonore, intérieur/extérieur	L_{WA}	-/68	dB	Pour les pompes à chaleur eau-eau ou eau saumure-eau : Débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur extérieur	-	N/A	m ³ /h
Consommation annuelle d'énergie	Q_{HE}	9356	kWh				

Pour un chauffe-eau combiné avec pompe à chaleur :

Profil de charge déclaré	N/A			Efficacité énergétique pour le chauffage de l'eau	η_{wh}	N/A	%
Consommation quotidienne d'électricité	Q_{elec}	N/A	kWh	Consommation quotidienne de combustible	Q_{fuel}	N/A	kWh
Consommation annuelle d'électricité	AEC	N/A	kWh	Consommation annuelle de combustible	AFC	N/A	GJ
Détails de contact	Consultez la couverture arrière du manuel.						

(*) Pour les chauffe-eau thermodynamiques et les chauffe-eau combinés thermodynamiques, la puissance thermique nominale est égale à la charge de conception pour le chauffage, et la puissance thermique nominale d'un chauffage d'appoint est égale à la capacité d'appoint pour le chauffage sup(T_j). (**) Si C_{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut est $C_{dh} = 0,9$.

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):				4kW(chauffage 3kW);4kW			
Échangeur de chaleur côté extérieur du refroidisseur				Air à eau			
Échangeur de chaleur côté intérieur du refroidisseur				Eau			
Type:				Compression de vapeur entraînée par compresseur			
Entraînement du compresseur				Moteur électrique			
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	4.6	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	216	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	4.6	kW	T _j =+35°C	EER _d	3.38	-
T _j = + 30°C	P _{dc}	3.5	kW	T _j = +30°C	EER _d	4.60	-
T _j = + 25°C	P _{dc}	2.2	kW	T _j = + 25°C	EER _d	6.23	-
T _j = + 20°C	P _{dc}	1.0	kW	T _j = + 20°C	EER _d	7.69	-
Coefficient de dégradation du refroidisseur (*)	C _{dc}	0.9	kW				
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension	P _{OFF}	0.010	kW	Mode de chauffage du carter	P _{ck}	0.000	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Mode veille	P _{SB}	0.010	KW
Autres projets							
Contrôle de la capacité	Variables			Pour les refroidisseurs de confort air-eau ; débit d'air, mesuré à l'extérieur.	-	2600	m ³ /h
Niveau de puissance acoustique, à l'intérieur / à l'extérieur	LWA	-/56	dB	Pour les refroidisseurs eau/glycol-eau ; débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur côté extérieur	-	N/A	m ³ /h
Émissions d'oxyde d'azote (le cas échéant)	NOx(**)	-	Mg/kwh d'entrée GCV				
GWP du fluide frigorigène	-	675	Kg CO ₂ eq (100 ans)				
Conditions de notation standard utilisées	Application à basse température						
Détails de contact	Consultez la couverture arrière du manuel.						
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**)À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):				4kW(chauffage 3kW);4kW			
Échangeur de chaleur côté extérieur du refroidisseur				Air à eau			
Échangeur de chaleur côté intérieur du refroidisseur				Eau			
Type:				Compression de vapeur entraînée par compresseur			
Entraînement du compresseur				Moteur électrique			
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	4.5	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	305	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	4.5	kW	T _j = +35°C	EER _d	5.64	-
T _j = + 30°C	P _{dc}	3.4	kW	T _j = +30°C	EER _d	7.47	-
T _j = + 25°C	P _{dc}	2.3	kW	T _j = + 25°C	EER _d	8.97	-
T _j = + 20°C	P _{dc}	1.0	kW	T _j = + 20°C	EER _d	8.81	-
Coefficient de dégradation du refroidisseur (*)				C _{dc} 0.9 kW			
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension				Mode de chauffage du carter			
P _{OFF}	0.010	kW		P _{ck}	0.000	KW	
Mode thermostat éteint				Mode veille			
P _{TO}	0.010	kW		P _{SB}	0.010	KW	
Autres projets							
Contrôle de la capacité				Variables			
Niveau de puissance acoustique, à l'intérieur / à l'extérieur				LWA -/56 dB			
Émissions d'oxyde d'azote (le cas échéant)				NOx(**) - Mg/kwh d'entrée GCV			
GWP du fluide frigorigène				- 675 Kg CO ₂ eq (100 ans)			
Conditions de notation standard utilisées				Applications à température moyenne			
Détails de contact				Consultez la couverture arrière du manuel.			
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**) À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):				6kW(chauffage 3kW);6kW			
Échangeur de chaleur côté extérieur du refroidisseur				Air à eau			
Échangeur de chaleur côté intérieur du refroidisseur				Eau			
Type:				Compression de vapeur entraînée par compresseur			
Entraînement du compresseur				Moteur électrique			
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	6.1	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	207	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	6.1	kW	T _j = +35°C	EER _d	3.22	-
T _j = + 30°C	P _{dc}	4.7	kW	T _j = +30°C	EER _d	4.68	-
T _j = + 25°C	P _{dc}	2.8	kW	T _j = + 25°C	EER _d	6.25	-
T _j = + 20°C	P _{dc}	1.2	kW	T _j = + 20°C	EER _d	6.07	-
Coefficient de dégradation du refroidisseur (*)	C _{dc}	0.9	kW				
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension	P _{OFF}	0.010	kW	Mode de chauffage du carter	P _{ck}	0.000	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Mode veille	P _{SB}	0.010	KW
Autres projets							
Contrôle de la capacité	Variables			Pour les refroidisseurs de confort air-eau ; débit d'air, mesuré à l'extérieur.	-	2800	m ³ /h
Niveau de puissance acoustique, à l'intérieur / à l'extérieur	LWA	-/59	dB	Pour les refroidisseurs eau/glycol-eau ; débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur côté extérieur	-	N/A	m ³ /h
Émissions d'oxyde d'azote (le cas échéant)	NOx(**)	-	Mg/kwh d'entrée GCV				
GWP du fluide frigorigène	-	675	Kg CO ₂ eq (100 ans)				
Conditions de notation standard utilisées	Application à basse température						
Détails de contact	Consultez la couverture arrière du manuel.						
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**) À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):				4kW(chauffage 3kW);4kW			
Échangeur de chaleur côté extérieur du refroidisseur				Air à eau			
Échangeur de chaleur côté intérieur du refroidisseur				Eau			
Type:				Compression de vapeur entraînée par compresseur			
Entraînement du compresseur				Moteur électrique			
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	6.1	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	319	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	6.1	kW	T _j =+35°C	EER _d	5.19	-
T _j = + 30°C	P _{dc}	4.4	kW	T _j = +30°C	EER _d	7.22	-
T _j = + 25°C	P _{dc}	2.9	kW	T _j = + 25°C	EER _d	10.09	-
T _j = + 20°C	P _{dc}	1.3	kW	T _j = + 20°C	EER _d	8.82	-
Coefficient de dégradation du refroidisseur (*)	C _{dc}	0.9	kW				
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension	P _{OFF}	0.010	kW	Mode de chauffage du carter	P _{ck}	0.000	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Mode veille	P _{SB}	0.010	KW
Autres projets							
Contrôle de la capacité	Variables			Pour les refroidisseurs de confort air-eau ; débit d'air, mesuré à l'extérieur.	-	2800	m ³ /h
Niveau de puissance acoustique, à l'intérieur / à l'extérieur	LWA	-/59	dB	Pour les refroidisseurs eau/glycol-eau ; débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur côté extérieur	-	N/A	m ³ /h
Émissions d'oxyde d'azote (le cas échéant)	NOx(**)	-	Mg/kwh d'entrée GCV				
GWP du fluide frigorigène	-	675	Kg CO ₂ eq (100 ans)				
Conditions de notation standard utilisées	Applications à température moyenne						
Détails de contact	Consultez la couverture arrière du manuel.						
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**)À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):				8kW(chauffage 3kW);8kW			
Échangeur de chaleur côté extérieur du refroidisseur				Air à eau			
Échangeur de chaleur côté intérieur du refroidisseur				Eau			
Type:				Compression de vapeur entraînée par compresseur			
Entraînement du compresseur				Moteur électrique			
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	7	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	214	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	7.0	kW	T _j =+35°C	EER _d	3.38	-
T _j = + 30°C	P _{dc}	5.7	kW	T _j = +30°C	EER _d	4.60	-
T _j = + 25°C	P _{dc}	3.7	kW	T _j = + 25°C	EER _d	6.23	-
T _j = + 20°C	P _{dc}	1.7	kW	T _j = + 20°C	EER _d	7.69	-
Coefficient de dégradation du refroidisseur (*)	C _{dc}	0.9	kW				
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension	P _{OFF}	0.014	kW	Mode de chauffage du carter	P _{ck}	0.000	KW
Mode thermostat éteint	P _{TO}	0.024	kW	Mode veille	P _{SB}	0.014	KW
Autres projets							
Contrôle de la capacité	Variables			Pour les refroidisseurs de confort air-eau ; débit d'air, mesuré à l'extérieur.	-	4000	m ³ /h
Niveau de puissance acoustique, à l'intérieur / à l'extérieur	LWA	-/60	dB	Pour les refroidisseurs eau/glycol-eau ; débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur côté extérieur	-	N/A	m ³ /h
Émissions d'oxyde d'azote (le cas échéant)	NOx(**)	-	Mg/kwh d'entrée GCV				
GWP du fluide frigorigène	-	675	Kg CO ₂ eq (100 ans)				
Conditions de notation standard utilisées	Application à basse température						
Détails de contact	Consultez la couverture arrière du manuel.						
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**)À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):				8kW(chauffage 3kW);8kW			
Échangeur de chaleur côté extérieur du refroidisseur				Air à eau			
Échangeur de chaleur côté intérieur du refroidisseur				Eau			
Type:				Compression de vapeur entraînée par compresseur			
Entraînement du compresseur				Moteur électrique			
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	8	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	318	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	8.0	kW	T _j = +35°C	EER _d	4.95	-
T _j = + 30°C	P _{dc}	6.4	kW	T _j = +30°C	EER _d	6.61	-
T _j = + 25°C	P _{dc}	4.3	kW	T _j = + 25°C	EER _d	9.06	-
T _j = + 20°C	P _{dc}	1.8	kW	T _j = + 20°C	EER _d	13.14	-
Coefficient de dégradation du refroidisseur (*)				C _{dc} 0.9 kW			
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension				Mode de chauffage du carter			
P _{OFF}	0.014	kW		P _{ck}	0.000	KW	
Mode thermostat éteint				Mode veille			
P _{TO}	0.024	kW		P _{SB}	0.014	KW	
Autres projets							
Contrôle de la capacité				Variables			
Niveau de puissance acoustique, à l'intérieur / à l'extérieur				LWA -/60 dB			
Émissions d'oxyde d'azote (le cas échéant)				NOx(**) - Mg/kwh d'entrée GCV			
GWP du fluide frigorigène				- 675 Kg CO ₂ eq (100 ans)			
Conditions de notation standard utilisées				Applications à température moyenne			
Détails de contact				Consultez la couverture arrière du manuel.			
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**) À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):				10kW(chauffage 3kW);10kW			
Échangeur de chaleur côté extérieur du refroidisseur				Air à eau			
Échangeur de chaleur côté intérieur du refroidisseur				Eau			
Type:				Compression de vapeur entraînée par compresseur			
Entraînement du compresseur				Moteur électrique			
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	8	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	212	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	8.1	kW	T _j =+35°C	EER _d	3.16	-
T _j = + 30°C	P _{dc}	6.6	kW	T _j = +30°C	EER _d	4.38	-
T _j = + 25°C	P _{dc}	4.3	kW	T _j = + 25°C	EER _d	6.18	-
T _j = + 20°C	P _{dc}	1.9	kW	T _j = + 20°C	EER _d	8.17	-
Coefficient de dégradation du refroidisseur (*)	C _{dc}	0.9	kW				
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension	P _{OFF}	0.014	kW	Mode de chauffage du carter	P _{ck}	0.000	KW
Mode thermostat éteint	P _{TO}	0.024	kW	Mode veille	P _{SB}	0.014	KW
Autres projets							
Contrôle de la capacité	Variables			Pour les refroidisseurs de confort air-eau ; débit d'air, mesuré à l'extérieur.	-	4500	m ³ /h
Niveau de puissance acoustique, à l'intérieur / à l'extérieur	LWA	-/61	dB	Pour les refroidisseurs eau/glycol-eau ; débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur côté extérieur	-	N/A	m ³ /h
Émissions d'oxyde d'azote (le cas échéant)	NOx(**)	-	Mg/kwh d'entrée GCV				
GWP du fluide frigorigène	-	675	Kg CO ₂ eq (100 ans)				
Conditions de notation standard utilisées	Application à basse température						
Détails de contact	Consultez la couverture arrière du manuel.						
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**)À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):				10kW(chauffage 3kW);10kW			
Échangeur de chaleur côté extérieur du refroidisseur				Air à eau			
Échangeur de chaleur côté intérieur du refroidisseur				Eau			
Type:				Compression de vapeur entraînée par compresseur			
Entraînement du compresseur				Moteur électrique			
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	10	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	307	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	9.5	kW	T _j =+35°C	EER _d	4.56	-
T _j = + 30°C	P _{dc}	7.7	kW	T _j = +30°C	EER _d	6.33	-
T _j = + 25°C	P _{dc}	4.9	kW	T _j = + 25°C	EER _d	8.48	-
T _j = + 20°C	P _{dc}	2.3	kW	T _j = + 20°C	EER _d	13.19	-
Coefficient de dégradation du refroidisseur (*)	C _{dc}	0.9	kW				
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension	P _{OFF}	0.014	kW	Mode de chauffage du carter	P _{ck}	0.000	KW
Mode thermostat éteint	P _{TO}	0.024	kW	Mode veille	P _{SB}	0.014	KW
Autres projets							
Contrôle de la capacité	Variables			Pour les refroidisseurs de confort air-eau ; débit d'air, mesuré à l'extérieur.	-	4500	m ³ /h
Niveau de puissance acoustique, à l'intérieur / à l'extérieur	LWA	-/61	dB	Pour les refroidisseurs eau/glycol-eau ; débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur côté extérieur	-	N/A	m ³ /h
Émissions d'oxyde d'azote (le cas échéant)	NOx(**)	-	Mg/kwh d'entrée GCV				
GWP du fluide frigorigène	-	675	Kg CO ₂ eq (100 ans)				
Conditions de notation standard utilisées	Applications à température moyenne						
Détails de contact	Consultez la couverture arrière du manuel.						
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**)À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):				12kW(chauffage 3kW);12kW			
Échangeur de chaleur côté extérieur du refroidisseur				Air à eau			
Échangeur de chaleur côté intérieur du refroidisseur				Eau			
Type:				Compression de vapeur entraînée par compresseur			
Entraînement du compresseur				Moteur électrique			
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	12	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	201	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	11.6	kW	T _j =+35°C	EER _d	2.80	-
T _j = + 30°C	P _{dc}	8.7	kW	T _j = +30°C	EER _d	4.34	-
T _j = + 25°C	P _{dc}	5.8	kW	T _j = + 25°C	EER _d	6.02	-
T _j = + 20°C	P _{dc}	2.6	kW	T _j = + 20°C	EER _d	6.46	-
Coefficient de dégradation du refroidisseur (*)	C _{dc}	0.9	kW				
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension	P _{OFF}	0.020	kW	Mode de chauffage du carter	P _{ck}	0.000	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Mode veille	P _{SB}	0.020	KW
Autres projets							
Contrôle de la capacité	Variables			Pour les refroidisseurs de confort air-eau ; débit d'air, mesuré à l'extérieur.	-	5000	m ³ /h
Niveau de puissance acoustique, à l'intérieur / à l'extérieur	LWA	-/64	dB	Pour les refroidisseurs eau/glycol-eau ; débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur côté extérieur	-	N/A	m ³ /h
Émissions d'oxyde d'azote (le cas échéant)	NOx(**)	-	Mg/kwh d'entrée GCV				
GWP du fluide frigorigène	-	675	Kg CO ₂ eq (100 ans)				
Conditions de notation standard utilisées	Application à basse température						
Détails de contact	Consultez la couverture arrière du manuel.						
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**)À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):				12kW(chauffage 3kW);12kW			
Échangeur de chaleur côté extérieur du refroidisseur				Air à eau			
Échangeur de chaleur côté intérieur du refroidisseur				Eau			
Type:				Compression de vapeur entraînée par compresseur			
Entraînement du compresseur				Moteur électrique			
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	12	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	295	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	12.0	kW	T _j =+35°C	EER _d	3.96	-
T _j = + 30°C	P _{dc}	9.3	kW	T _j = +30°C	EER _d	6.16	-
T _j = + 25°C	P _{dc}	5.6	kW	T _j = + 25°C	EER _d	9.03	-
T _j = + 20°C	P _{dc}	3.5	kW	T _j = + 20°C	EER _d	10.04	-
Coefficient de dégradation du refroidisseur (*)				C _{dc} 0.9 kW			
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension				Mode de chauffage du carter			
P _{OFF}	0.020	kW		P _{ck}	0.000	KW	
Mode thermostat éteint				Mode veille			
P _{TO}	0.010	kW		P _{SB}	0.020	KW	
Autres projets							
Contrôle de la capacité				Variables			
Niveau de puissance acoustique, à l'intérieur / à l'extérieur				LWA -/64 dB			
Émissions d'oxyde d'azote (le cas échéant)				NOx(**) - Mg/kwh d'entrée GCV			
GWP du fluide frigorigène				- 675 Kg CO ₂ eq (100 ans)			
Conditions de notation standard utilisées				Applications à température moyenne			
Détails de contact				Consultez la couverture arrière du manuel.			
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**)À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):				14kW(chauffage 3kW);14kW			
Échangeur de chaleur côté extérieur du refroidisseur				Air à eau			
Échangeur de chaleur côté intérieur du refroidisseur				Eau			
Type:				Compression de vapeur entraînée par compresseur			
Entraînement du compresseur				Moteur électrique			
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	13	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	200	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	12.7	kW	T _j =+35°C	EER _d	2.59	-
T _j = + 30°C	P _{dc}	9.5	kW	T _j = +30°C	EER _d	4.33	-
T _j = + 25°C	P _{dc}	6.3	kW	T _j = + 25°C	EER _d	6.08	-
T _j = + 20°C	P _{dc}	3.0	kW	T _j = + 20°C	EER _d	6.64	-
Coefficient de dégradation du refroidisseur (*)	C _{dc}	0.9	kW				
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension	P _{OFF}	0.020	kW	Mode de chauffage du carter	P _{ck}	0.000	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Mode veille	P _{SB}	0.020	KW
Autres projets							
Contrôle de la capacité	Variables			Pour les refroidisseurs de confort air-eau ; débit d'air, mesuré à l'extérieur.	-	5500	m ³ /h
Niveau de puissance acoustique, à l'intérieur / à l'extérieur	LWA	-/66	dB	Pour les refroidisseurs eau/glycol-eau ; débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur côté extérieur	-	N/A	m ³ /h
Émissions d'oxyde d'azote (le cas échéant)	NOx(**)	-	Mg/kwh d'entrée GCV				
GWP du fluide frigorigène	-	675	Kg CO ₂ eq (100 ans)				
Conditions de notation standard utilisées	Application à basse température						
Détails de contact	Consultez la couverture arrière du manuel.						
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**)À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):				14kW(chauffage 3kW);14kW			
Échangeur de chaleur côté extérieur du refroidisseur				Air à eau			
Échangeur de chaleur côté intérieur du refroidisseur				Eau			
Type:				Compression de vapeur entraînée par compresseur			
Entraînement du compresseur				Moteur électrique			
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	14	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	281	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	13.6	kW	T _j =+35°C	EER _d	3.73	-
T _j = + 30°C	P _{dc}	10.4	kW	T _j = +30°C	EER _d	5.75	-
T _j = + 25°C	P _{dc}	6.6	kW	T _j = + 25°C	EER _d	8.58	-
T _j = + 20°C	P _{dc}	3.5	kW	T _j = + 20°C	EER _d	9.96	-
Coefficient de dégradation du refroidisseur (*)				C _{dc} 0.9 kW			
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension	P _{OFF}	0.020	kW	Mode de chauffage du carter	P _{ck}	0.000	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Mode veille	P _{SB}	0.020	KW
Autres projets							
Contrôle de la capacité	Variables			Pour les refroidisseurs de confort air-eau ; débit d'air, mesuré à l'extérieur.	-	5500	m ³ /h
Niveau de puissance acoustique, à l'intérieur / à l'extérieur	LWA	-/66	dB	Pour les refroidisseurs eau/glycol-eau ; débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur côté extérieur	-	N/A	m ³ /h
Émissions d'oxyde d'azote (le cas échéant)	NOx(**)	-	Mg/kwh d'entrée GCV				
GWP du fluide frigorigène	-	675	Kg CO ₂ eq (100 ans)				
Conditions de notation standard utilisées	Applications à température moyenne						
Détails de contact	Consultez la couverture arrière du manuel.						
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**)À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):				16kW(chauffage 3kW);16kW			
Échangeur de chaleur côté extérieur du refroidisseur				Air à eau			
Échangeur de chaleur côté intérieur du refroidisseur				Eau			
Type:				Compression de vapeur entraînée par compresseur			
Entraînement du compresseur				Moteur électrique			
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	14	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	192	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	14.3	kW	T _j =+35°C	EER _d	2.51	-
T _j = + 30°C	P _{dc}	10.6	kW	T _j = +30°C	EER _d	3.70	-
T _j = + 25°C	P _{dc}	6.8	kW	T _j = + 25°C	EER _d	5.87	-
T _j = + 20°C	P _{dc}	3.5	kW	T _j = + 20°C	EER _d	7.23	-
Coefficient de dégradation du refroidisseur (*)				C _{dc} 0.9 kW			
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension				Mode de chauffage du carter			
P _{OFF}	0.020	kW		P _{ck}	0.000	KW	
Mode thermostat éteint				Mode veille			
P _{TO}	0.010	kW		P _{SB}	0.020	KW	
Autres projets							
Contrôle de la capacité				Variables			
Niveau de puissance acoustique, à l'intérieur / à l'extérieur				LWA -/68 dB			
Émissions d'oxyde d'azote (le cas échéant)				NOx(**) - Mg/kwh d'entrée GCV			
GWP du fluide frigorigène				- 675 Kg CO ₂ eq (100 ans)			
Conditions de notation standard utilisées				Application à basse température			
Détails de contact				Consultez la couverture arrière du manuel.			
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**)À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):				16kW(chauffage 3kW);16kW			
Échangeur de chaleur côté extérieur du refroidisseur				Air à eau			
Échangeur de chaleur côté intérieur du refroidisseur				Eau			
Type:				Compression de vapeur entraînée par compresseur			
Entraînement du compresseur				Moteur électrique			
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	15	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	280	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	15.4	kW	T _j =+35°C	EER _d	3.50	-
T _j = + 30°C	P _{dc}	11.6	kW	T _j = +30°C	EER _d	5.45	-
T _j = + 25°C	P _{dc}	7.3	kW	T _j = + 25°C	EER _d	8.35	-
T _j = + 20°C	P _{dc}	4.6	kW	T _j = + 20°C	EER _d	11.68	-
Coefficient de dégradation du refroidisseur (*)				C _{dc} 0.9 kW			
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension	P _{OFF}	0.020	kW	Mode de chauffage du carter	P _{ck}	0.000	KW
Mode thermostat éteint	P _{TO}	0.010	kW	Mode veille	P _{SB}	0.020	KW
Autres projets							
Contrôle de la capacité	Variables			Pour les refroidisseurs de confort air-eau ; débit d'air, mesuré à l'extérieur.	-	6000	m ³ /h
Niveau de puissance acoustique, à l'intérieur / à l'extérieur	LWA	-/68	dB	Pour les refroidisseurs eau/glycol-eau ; débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur côté extérieur	-	N/A	m ³ /h
Émissions d'oxyde d'azote (le cas échéant)	NOx(**)	-	Mg/kwh d'entrée GCV				
GWP du fluide frigorigène	-	675	Kg CO ₂ eq (100 ans)				
Conditions de notation standard utilisées	Applications à température moyenne						
Détails de contact	Consultez la couverture arrière du manuel.						
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**)À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):	3 - PH 12kw (chauffage 9kw); 3 - PH 12kw (chauffage 6kw); 3 - PH 12kw (chauffage 3kW); 3 - PH 12kw						
Échangeur de chaleur côté extérieur du refroidisseur	Air à eau						
Échangeur de chaleur côté intérieur du refroidisseur	Eau						
Type:	Compression de vapeur entraînée par compresseur						
Entraînement du compresseur	Moteur électrique						
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	12	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	197	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	11.7	kW	T _j = +35°C	EER _d	2.64	-
T _j = + 30°C	P _{dc}	8.8	kW	T _j = +30°C	EER _d	4.09	-
T _j = + 25°C	P _{dc}	5.9	kW	T _j = + 25°C	EER _d	5.58	-
T _j = + 20°C	P _{dc}	4.1	kW	T _j = + 20°C	EER _d	8.01	-
Coefficient de dégradation du refroidisseur (*)	C _{dc}	0.9	kW				
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension	P _{OFF}	0.014	kW	Mode de chauffage du carter	P _{ck}	0.000	KW
Mode thermostat éteint	P _{TO}	0.024	kW	Mode veille	P _{SB}	0.014	KW
Autres projets							
Contrôle de la capacité	Variables			Pour les refroidisseurs de confort air-eau ; débit d'air, mesuré à l'extérieur.	-	5000	m ³ /h
Niveau de puissance acoustique, à l'intérieur / à l'extérieur	LWA	-/64	dB	Pour les refroidisseurs eau/glycol-eau ; débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur côté extérieur	-	N/A	m ³ /h
Émissions d'oxyde d'azote (le cas échéant)	NOx(**)	-	Mg/kwh d'entrée GCV				
GWP du fluide frigorigène	-	675	Kg CO ₂ eq (100 ans)				
Conditions de notation standard utilisées	Application à basse température						
Détails de contact	Consultez la couverture arrière du manuel.						
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**) À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):	3 - PH 12kw (chauffage 9kw); 3 - PH 12kw (chauffage 6kw); 3 - PH 12kw (chauffage 3kW); 3 - PH 12kw						
Échangeur de chaleur côté extérieur du refroidisseur	Air à eau						
Échangeur de chaleur côté intérieur du refroidisseur	Eau						
Type:	Compression de vapeur entraînée par compresseur						
Entraînement du compresseur	Moteur électrique						
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	12	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	276	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	12.0	kW	T _j = +35°C	EER _d	3.91	-
T _j = + 30°C	P _{dc}	9.3	kW	T _j = +30°C	EER _d	5.67	-
T _j = + 25°C	P _{dc}	5.7	kW	T _j = + 25°C	EER _d	7.98	-
T _j = + 20°C	P _{dc}	5.1	kW	T _j = + 20°C	EER _d	11.37	-
Coefficient de dégradation du refroidisseur (*)	C _{dc}	0.9	kW				
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension	P _{OFF}	0.014	kW	Mode de chauffage du carter	P _{ck}	0.000	KW
Mode thermostat éteint	P _{TO}	0.024	kW	Mode veille	P _{SB}	0.014	KW
Autres projets							
Contrôle de la capacité	Variables			Pour les refroidisseurs de confort air-eau ; débit d'air, mesuré à l'extérieur.	-	5000	m ³ /h
Niveau de puissance acoustique, à l'intérieur / à l'extérieur	LWA	-/64	dB	Pour les refroidisseurs eau/glycol-eau ; débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur côté extérieur	-	N/A	m ³ /h
Émissions d'oxyde d'azote (le cas échéant)	NOx(**)	-	Mg/kwh d'entrée GCV				
GWP du fluide frigorigène	-	675	Kg CO ₂ eq (100 ans)				
Conditions de notation standard utilisées	Applications à température moyenne						
Détails de contact	Consultez la couverture arrière du manuel.						
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**) À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):	3 - PH 14kw (chauffage 9kw); 3 - PH 14kw (chauffage 6kw); 3 - PH 14kw (chauffage 3kW); 3 - PH 14kw						
Échangeur de chaleur côté extérieur du refroidisseur	Air à eau						
Échangeur de chaleur côté intérieur du refroidisseur	Eau						
Type:	Compression de vapeur entraînée par compresseur						
Entraînement du compresseur	Moteur électrique						
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	13	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	188	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	12.7	kW	T _j = +35°C	EER _d	2.36	-
T _j = + 30°C	P _{dc}	9.5	kW	T _j = +30°C	EER _d	4.07	-
T _j = + 25°C	P _{dc}	6.1	kW	T _j = + 25°C	EER _d	5.76	-
T _j = + 20°C	P _{dc}	2.8	kW	T _j = + 20°C	EER _d	6.05	-
Coefficient de dégradation du refroidisseur (*)	C _{dc}	0.9	kW				
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension	P _{OFF}	0.014	kW	Mode de chauffage du carter	P _{ck}	0.000	KW
Mode thermostat éteint	P _{TO}	0.024	kW	Mode veille	P _{SB}	0.014	KW
Autres projets							
Contrôle de la capacité	Variables			Pour les refroidisseurs de confort air-eau ; débit d'air, mesuré à l'extérieur.	-	5500	m ³ /h
Niveau de puissance acoustique, à l'intérieur / à l'extérieur	LWA	-/66	dB	Pour les refroidisseurs eau/glycol-eau ; débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur côté extérieur	-	N/A	m ³ /h
Émissions d'oxyde d'azote (le cas échéant)	NOx(**)	-	Mg/kwh d'entrée GCV				
GWP du fluide frigorigène	-	675	Kg CO ₂ eq (100 ans)				
Conditions de notation standard utilisées	Application à basse température						
Détails de contact	Consultez la couverture arrière du manuel.						
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**) À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):	3 - PH 14kw (chauffage 9kw); 3 - PH 14kw (chauffage 6kw); 3 - PH 14kw (chauffage 3kW); 3 - PH 14kw						
Échangeur de chaleur côté extérieur du refroidisseur	Air à eau						
Échangeur de chaleur côté intérieur du refroidisseur	Eau						
Type:	Compression de vapeur entraînée par compresseur						
Entraînement du compresseur	Moteur électrique						
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	14	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	269	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	13.5	kW	T _j = +35°C	EER _d	3.72	-
T _j = + 30°C	P _{dc}	10.3	kW	T _j = +30°C	EER _d	5.51	-
T _j = + 25°C	P _{dc}	6.5	kW	T _j = + 25°C	EER _d	8.11	-
T _j = + 20°C	P _{dc}	3.4	kW	T _j = + 20°C	EER _d	9.49	-
Coefficient de dégradation du refroidisseur (*)	C _{dc}	0.9	kW				
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension	P _{OFF}	0.014	kW	Mode de chauffage du carter	P _{ck}	0.000	KW
Mode thermostat éteint	P _{TO}	0.024	kW	Mode veille	P _{SB}	0.014	KW
Autres projets							
Contrôle de la capacité	Variables			Pour les refroidisseurs de confort air-eau ; débit d'air, mesuré à l'extérieur.	-	5500	m ³ /h
Niveau de puissance acoustique, à l'intérieur / à l'extérieur	LWA	-/66	dB	Pour les refroidisseurs eau/glycol-eau ; débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur côté extérieur	-	N/A	m ³ /h
Émissions d'oxyde d'azote (le cas échéant)	NOx(**)	-	Mg/kwh d'entrée GCV				
GWP du fluide frigorigène	-	675	Kg CO ₂ eq (100 ans)				
Conditions de notation standard utilisées	Applications à température moyenne						
Détails de contact	Consultez la couverture arrière du manuel.						
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**) À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):	3 - PH 16kw (chauffage 9kw); 3 - PH 16kw (chauffage 6kw); 3 - PH 16kw (chauffage 3kW); 3 - PH 16kw						
Échangeur de chaleur côté extérieur du refroidisseur	Air à eau						
Échangeur de chaleur côté intérieur du refroidisseur	Eau						
Type:	Compression de vapeur entraînée par compresseur						
Entraînement du compresseur	Moteur électrique						
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	14	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	186	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	13.8	kW	T _j = +35°C	EER _d	2.41	-
T _j = + 30°C	P _{dc}	10.9	kW	T _j = +30°C	EER _d	3.65	-
T _j = + 25°C	P _{dc}	6.9	kW	T _j = + 25°C	EER _d	5.60	-
T _j = + 20°C	P _{dc}	3.6	kW	T _j = + 20°C	EER _d	7.08	-
Coefficient de dégradation du refroidisseur (*)	C _{dc}	0.9	kW				
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension	P _{OFF}	0.014	kW	Mode de chauffage du carter	P _{ck}	0.000	KW
Mode thermostat éteint	P _{TO}	0.024	kW	Mode veille	P _{SB}	0.014	KW
Autres projets							
Contrôle de la capacité	Variables			Pour les refroidisseurs de confort air-eau ; débit d'air, mesuré à l'extérieur.	-	6000	m ³ /h
Niveau de puissance acoustique, à l'intérieur / à l'extérieur	LWA	-/68	dB	Pour les refroidisseurs eau/glycol-eau ; débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur côté extérieur	-	N/A	m ³ /h
Émissions d'oxyde d'azote (le cas échéant)	NOx(**)	-	Mg/kwh d'entrée GCV				
GWP du fluide frigorigène	-	675	Kg CO ₂ eq (100 ans)				
Conditions de notation standard utilisées	Application à basse température						
Détails de contact	Consultez la couverture arrière du manuel.						
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**) À partir du 26 septembre 2018.							

Exigences en matière d'informations pour les refroidisseurs de confort

Modèle(s):	3 - PH 16kw (chauffage 9kw); 3 - PH 16kw (chauffage 6kw); 3 - PH 16kw (chauffage 3kW); 3 - PH 16kw						
Échangeur de chaleur côté extérieur du refroidisseur	Air à eau						
Échangeur de chaleur côté intérieur du refroidisseur	Eau						
Type:	Compression de vapeur entraînée par compresseur						
Entraînement du compresseur	Moteur électrique						
Article	Symbol	Valeur	Unité	Article	Symbol	Valeur	Unité
Puissance thermique nominale(*)	Puissance nominale.c	16	kW	Efficacité énergétique saisonnière pour le chauffage de l'espace	H _{s,c}	263	%
Capacité déclarée de refroidissement pour une charge partielle à la température extérieure donnée T _j .				Rapport de l'efficacité énergétique déclarée pour le refroidissement en charge partielle à une température extérieure donnée T _j .			
T _j = + 35°C	P _{dc}	15.5	kW	T _j = +35°C	EER _d	3.35	-
T _j = + 30°C	P _{dc}	11.6	kW	T _j = +30°C	EER _d	4.90	-
T _j = + 25°C	P _{dc}	7.5	kW	T _j = + 25°C	EER _d	7.91	-
T _j = + 20°C	P _{dc}	5.1	kW	T _j = + 20°C	EER _d	11.29	-
Coefficient de dégradation du refroidisseur (*)	C _{dc}	0.9	kW				
Consommation d'énergie dans des modes autres que le "mode actif"							
Mode hors tension	P _{OFF}	0.014	kW	Mode de chauffage du carter	P _{ck}	0.000	KW
Mode thermostat éteint	P _{TO}	0.024	kW	Mode veille	P _{SB}	0.014	KW
Autres projets							
Contrôle de la capacité	Variables			Pour les refroidisseurs de confort air-eau ; débit d'air, mesuré à l'extérieur.	-	6000	m ³ /h
Niveau de puissance acoustique, à l'intérieur / à l'extérieur	LWA	-/68	dB	Pour les refroidisseurs eau/glycol-eau ; débit d'eau ou de fluide caloporteur nominal, échangeur de chaleur côté extérieur	-	N/A	m ³ /h
Émissions d'oxyde d'azote (le cas échéant)	NOx(**)	-	Mg/kwh d'entrée GCV				
GWP du fluide frigorigène	-	675	Kg CO ₂ eq (100 ans)				
Conditions de notation standard utilisées	Applications à température moyenne						
Détails de contact	Consultez la couverture arrière du manuel.						
(**) Si C _{dh} n'est pas déterminé par mesure, alors le coefficient de dégradation par défaut des refroidisseurs sera de 0,9.							
(**) À partir du 26 septembre 2018.							

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The Creative Life

Dati tecnici

Serie Tri-Thermal

Monoblock



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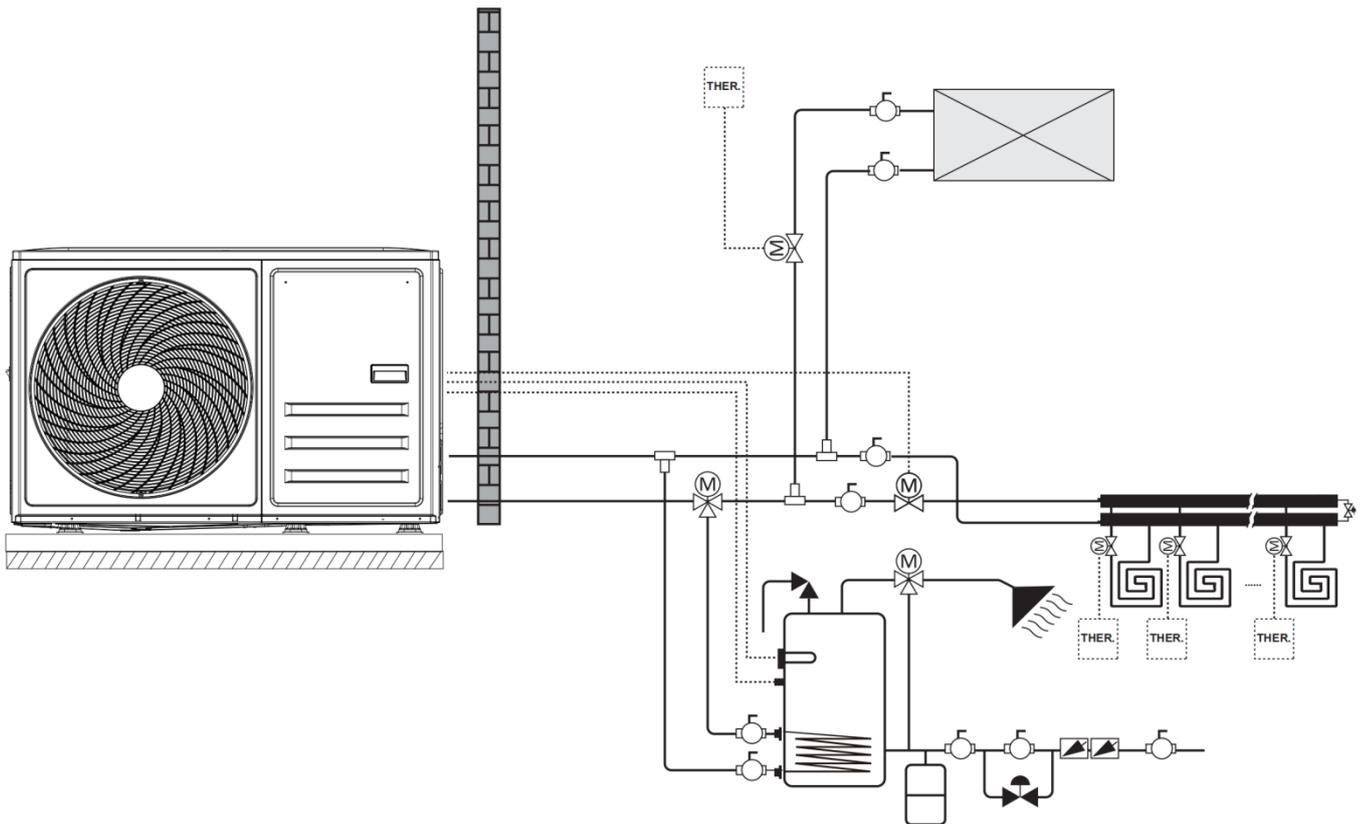
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Parte 1 Informazioni generali

1 Sistema Tri-Thermal

1.1 Diagramma del sistema

Figura 1-1.1: Diagramma del sistema



Tri-Thermal è un sistema integrato a pompa di calore aria-acqua che integra il riscaldamento, il raffrescamento e la produzione di acqua calda sanitaria. Il sistema a pompa di calore esterna estrae il calore dall'aria esterna e lo trasferisce attraverso le tubazioni del refrigerante allo scambiatore di calore a piastre nel box idronico. L'acqua riscaldata nel box idronico circola verso emettitori di calore a bassa temperatura (riscaldamento a pavimento o radiatori a bassa temperatura) per riscaldare gli ambienti e verso il serbatoio dell'acqua calda sanitaria per fornire acqua calda sanitaria. La valvola a 4 vie dell'unità esterna può invertire il ciclo del refrigerante in modo che il box idronico possa fornire acqua refrigerata per il raffrescamento mediante ventilconvettori.

La capacità di riscaldamento delle pompe di calore si riduce al diminuire della temperatura ambiente. Il riscaldatore elettrico di riserva è personalizzato per fornire una capacità di riscaldamento aggiuntiva da utilizzare in caso di temperature estremamente rigide e quando la capacità della pompa di calore è insufficiente.

1.2 Impianto

Tri-Thermal Mono può essere configurato per funzionare con il riscaldatore elettrico attivo o disattivato e può essere utilizzato anche in combinazione con una fonte di calore ausiliaria come scaldabagno elettrici, caldaie a gas tradizionali o boiler solari.

La scelta influisce sulla pompa di calore necessaria. I tre tipi sono descritti nel seguito. Fare riferimento alla Figura 1-1.2.

a: Solo pompa di calore

- La pompa di calore soddisfa la domanda di capacità e non è necessaria una capacità di riscaldamento aggiuntiva.
- Richiede la scelta di una pompa di calore di capacità maggiore e comporta un investimento iniziale più elevato.

- Ideale per le nuove costruzioni in progetti in cui l'efficienza energetica è fondamentale.

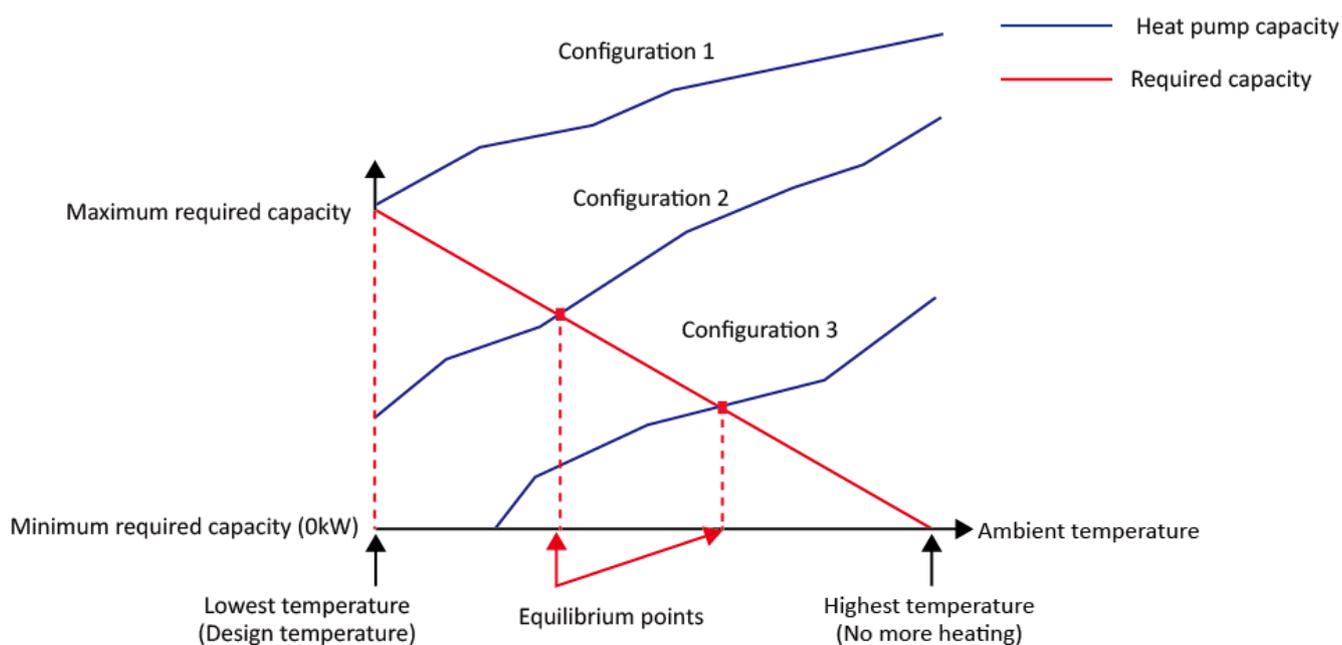
b: Pompa di calore e riscaldatore elettrico di riserva

- La pompa di calore soddisfa la domanda di capacità finché la temperatura ambiente non scende al di sotto del punto in cui la pompa di calore è in grado di fornire una capacità sufficiente. Quando la temperatura ambiente è inferiore a questo punto di equilibrio (come mostrato nella Figura 1-1.2), il riscaldatore elettrico di riserva fornisce la capacità di riscaldamento supplementare necessaria.
- Il miglior equilibrio tra investimento iniziale e costi di esercizio, con conseguente riduzione dei costi del ciclo di vita.
- Ideale per nuove costruzioni.

c: Combinazione pompa di calore e fonte di calore ausiliaria

- La pompa di calore soddisfa la domanda di capacità finché la temperatura ambiente non scende al di sotto del punto in cui la pompa di calore è in grado di fornire una capacità sufficiente. Quando la temperatura ambiente è inferiore a questo punto di equilibrio (come mostrato nella Figura 1-1.2), a seconda delle impostazioni del sistema, la fonte di calore ausiliaria fornisce la capacità di riscaldamento aggiuntiva richiesta oppure la pompa di calore non funziona e la fonte di calore ausiliaria soddisfa l'intera capacità richiesta.
- Consente di selezionare una pompa di calore di capacità inferiore.
- Ideale per ristrutturazioni e aggiornamenti.

Figura 1-1.2: Impianto



2 Capacità delle unità

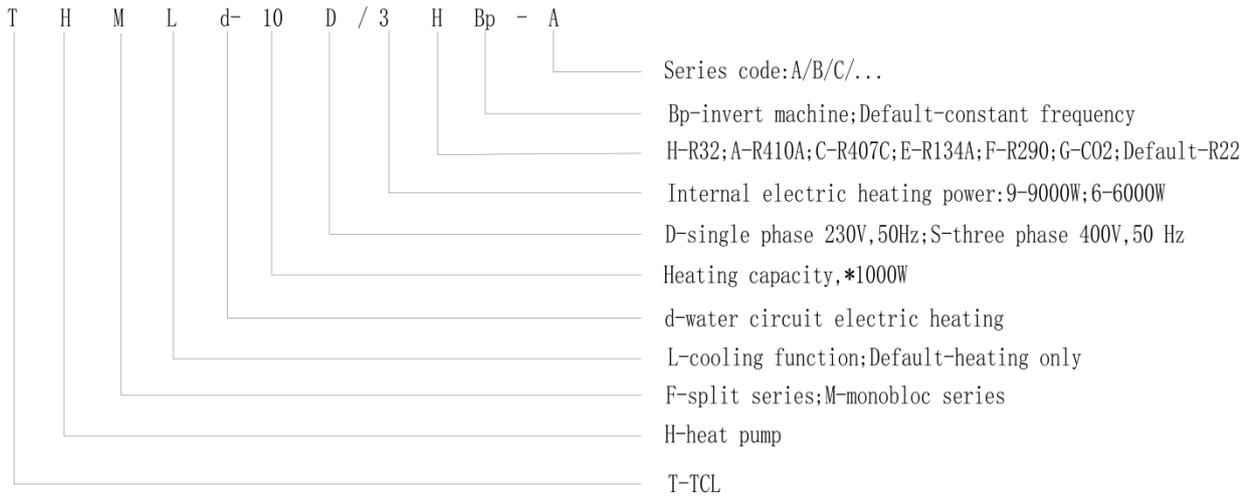
Tabella 1-2.1: Monoblocco

Capacità	4 kW	6 kW	8 kW	10 kW
THMLd-	4D/3HBp-A	6D/3HBp-A	8D/3HBp-A	10D/3HBp-A
Alimentazione (V/Ph/Hz)	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Aspetto				

Capacità	12 kW	14 kW	16 kW	12 kW	14 kW	16 kW
THMLd-	12D/3HBp-A	14D/3HBp-A	16D/3HBp-A	12S/3HBp-A	14S/3HBp-A	16S/3HBp-A
Alimentazione (V/Ph/Hz)	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50
Aspetto						

Nomenclatura

3.1 Unità esterna



4 Progettazione dell'impianto e selezione delle unità

4.1 Procedura di selezione

Passo 1: Calcolo del carico termico totale

Inizio della procedura di
selezione sistema Tri-Thermal
Monoblock

Passo 2: Impianto

Selezionare la superficie da trattare
Selezionare gli emettitori di calore (tipo, quantità, temperatura dell'acqua e carico termico)

Passo 3: Selezione del monoblocco

Decidere se includere l'AHS e impostare la temperatura di
commutazione dell'AHS Decidere se il riscaldatore elettrico di
riserva è abilitato o disabilitato

Determinare il carico termico totale richiesto per il monoblocco
Definire il coefficiente di sicurezza per la capacità
Selezionare l'alimentazione elettrica

Selezionare temporaneamente la capacità dell'unità Tri-Thermal Mono in
base alla capacità nominale

Correggere la capacità del monoblocco in funzione dei seguenti aspetti:
Temperatura dell'aria esterna / Umidità esterna / Temperatura dell'acqua
in uscita¹ / Altitudine / Liquido antigelo

ottenere la capacità dell'unità Tri-Thermal Mono \geq Carico termico
totale richiesto sul monoblocco²

Sì

La selezione del sistema
Tri-Thermal Mono
è completata

No

Scegliere un modello più grande
o abilitare il funzionamento del
riscaldatore elettrico di riserva.

Note:

1. Se le temperature dell'acqua richieste dagli emettitori di calore non sono uguali, la temperatura di uscita dell'acqua del Tri-Thermal Mono deve essere impostata sulla temperatura più alta tra quelle richieste dagli emettitori di calore. Se la temperatura di progetto dell'acqua in uscita è compresa tra due temperature elencate nella tabella di capacità dell'unità esterna, calcolare la capacità corretta per interpolazione.
2. Se la scelta dell'unità esterna deve basarsi sul carico totale di riscaldamento e sul carico totale di raffrescamento, selezionare unità Mono che soddisfano entrambi i requisiti di carico totale di riscaldamento e raffrescamento.

4.2 Selezione della temperatura dell'acqua in uscita (LWT) dal sistema Tri-Thermal

Le temperature di mandata acqua LWT di progetto consigliati per i diversi tipi di emettitori di calore sono:

Per riscaldamento a pavimento: Da 30 a 35°C

Per ventilconvettori: Da 30 a 45°C

Per radiatori a bassa temperatura: Da 40 a 50°C

4.3 Ottimizzazione della progettazione dell'impianto

Per ottenere con Tri-Thermal il massimo comfort con il minimo consumo energetico, è importante tenere in considerazione quanto segue:

Scegliere emettitori di calore che consentano al sistema a pompa di calore di funzionare con una temperatura dell'acqua calda il più bassa possibile, garantendo comunque un riscaldamento sufficiente.

Assicurarsi di avere selezionato curva di dipendenza dalle condizioni atmosferiche adatta all'ambiente di installazione (struttura dell'edificio, clima) e alle esigenze dell'utente finale.

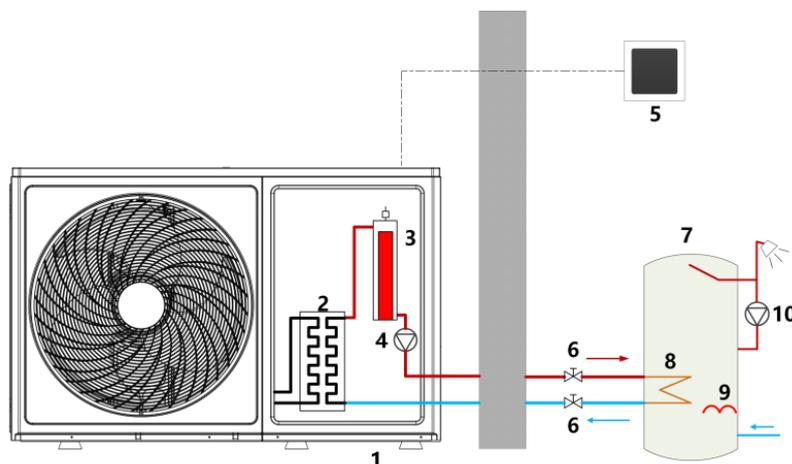
Il collegamento di termostati ambiente (forniti in loco) all'impianto idronico aiuta a prevenire un riscaldamento eccessivo degli ambienti, arrestando l'unità esterna e la pompa di circolazione quando la temperatura ambiente supera il valore impostato sul termostato.

5 Applicazioni tipiche

5.1 Solo acqua calda sanitaria

In caso di richiesta di riscaldamento dell'acqua calda sanitaria (ACS) da parte del comando cablato, l'unità lavora per raggiungere la temperatura target dell'acqua impostata sull'interfaccia utente. Quando la temperatura dell'acqua raggiunge la temperatura impostata dal termostato, l'unità si ferma.

Figura 1-5.1: Riscaldamento ACS



Legenda			
1	L'unità esterna	6	Valvola di arresto
2	Scambiatore di calore a piastre	7	Serbatoio acqua calda sanitaria
3	Riscaldatore elettrico di riserva (opzionale)	8	Scambiatore di calore
4	Pompa di circolazione interna	9	Riscaldatore elettrico serbatoio acqua calda sanitaria
5	Comando cablato	10	Pompa di circolazione ACS

5.2 Riscaldamento ambienti e acqua calda sanitaria

Impostare il controllo monozona nel comando cablato e selezionare il tipo di carico finale: uno qualsiasi tra riscaldamento a pavimento, ventilconvettore e radiatore. In presenza di acqua calda sanitaria, è installata una valvola a tre vie SV1; in caso contrario, non è necessaria.

È necessaria una pompa di circolazione esterna.

Nel comando cablato è possibile effettuare le seguenti impostazioni

- ① Per controllare la temperatura ambiente, è necessario collegare il sensore di temperatura ambiente interna della zona A o spostare il comando cablato nell'ambiente per il campionamento. Il comando cablato visualizzerà la temperatura ambiente.
- ② Se la temperatura dell'acqua è controllata, il sensore della temperatura ambiente interna della zona A non sarà attendibile; il regolatore cablato visualizzerà la temperatura dell'acqua.
- ③ Quando la temperatura ambiente e la temperatura dell'acqua sono controllate, la $T_{SA}^{①}$ è convertita in $T_{SA-W}^{②}$. Se l'utente ha impostato una curva di temperatura, il funzionamento avverrà in base alla curva corrispondente; altrimenti, sarà utilizzata la curva di temperatura 4. Il comando cablato visualizza la temperatura ambiente e la temperatura dell'acqua impostate.
 - In modalità di raffrescamento, utilizzare il parametro MIN (T_{SA-W} , $T_S^{③}$) per controllare l'avvio e l'arresto del compressore.
 - In modalità di riscaldamento, utilizzare il parametro MAX (T_{SA-W} , T_S) per controllare l'avvio e l'arresto del compressore.

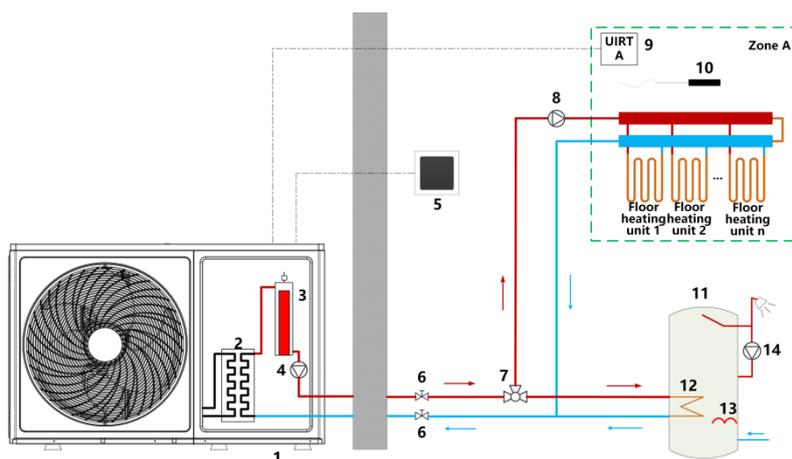
Il termostato è abilitato nel comando cablato, il comando di commutazione e la selezione della modalità sono effettuati mediante il termostato.

- ① Quando il termostato invia un segnale C, l'unità inizia a funzionare in modalità raffrescamento.
- ② Quando il termostato invia un segnale H, l'unità inizia a funzionare in modalità riscaldamento.
- ③ Quando il termostato non invia segnali C e H, l'unità passa allo stato di spegnimento.

Quando il termostato è acceso e il comando cablato è spento, viene segnalata l'interruzione del funzionamento e il comando cablato può essere utilizzato per spegnere il controllo dopo l'annullamento del funzionamento termostato. Il controllo del termostato può controllare solo la temperatura dell'acqua; l'interruttore del termostato non influisce sul controllo dell'acqua calda sanitaria.

Note: ① Impostazione della temperatura ambiente; ② Impostazione della temperatura dell'acqua corrispondente alla temperatura ambiente impostata ; ③ Impostazione della temperatura dell'acqua.

Figura 1-5.2: Riscaldamento ambienti e acqua calda sanitaria



Legenda			
1	Unità esterna	8	Pompa di circolazione esterna
2	Scambiatore di calore a piastre	9	Termostato A
3	Riscaldatore elettrico di riserva (opzionale)	10	Sensore di temperatura ambiente interna zona A
4	Pompa di circolazione interna	11	Serbatoio acqua calda sanitaria
5	Interfaccia utente	12	Scambiatore di calore
6	Valvola di arresto	13	Riscaldatore elettrico serbatoio acqua calda sanitaria
7	Valvola a tre vie SV1	14	Pompa di circolazione ACS

5.3 Riscaldamento e raffrescamento ambienti e acqua calda sanitaria

Il riscaldamento a pavimento è utilizzato per il riscaldamento degli ambienti, mentre i ventilconvettori sono utilizzati per il riscaldamento/raffrescamento degli ambienti. L'acqua calda sanitaria è fornita da un serbatoio dedicato.

La regolazione monozona è impostata nel comando cablato. Richiede la selezione del tipo di carico finale (riscaldamento a pavimento + ventilconvettore o radiatore + ventilconvettore) e una valvola a tre vie SV2. In presenza di acqua calda sanitaria, è installata una valvola a tre vie SV1; in caso contrario, non è necessaria. È necessaria una pompa di circolazione esterna.

Nel comando cablato è possibile effettuare le seguenti impostazioni

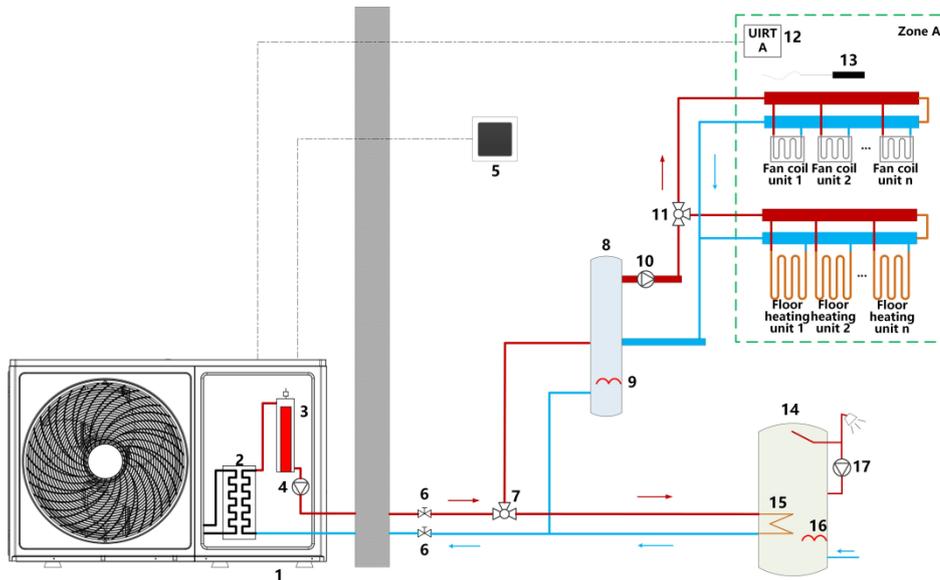
- ① Per controllare la temperatura ambiente, è necessario collegare il sensore di temperatura ambiente interna della zona A o spostare il comando cablato nell'ambiente per il campionamento. Il comando cablato visualizzerà la temperatura ambiente.
 - ② Se la temperatura dell'acqua è controllata, il sensore della temperatura ambiente interna della zona A non sarà attendibile; il regolatore cablato visualizzerà la temperatura dell'acqua.
 - ③ Quando la temperatura ambiente e la temperatura dell'acqua sono controllate, la T_{SA} è convertita nella T_{SA-W} . Se l'utente ha impostato una curva di temperatura, l'impianto funzionerà secondo la curva corrispondente; altrimenti, utilizzerà la curva di temperatura 4. Il comando cablato visualizza la temperatura ambiente e la temperatura dell'acqua impostate.
- In modalità di raffrescamento, utilizzare il parametro MIN (T_{SA-W} , T_S) per controllare l'avvio e l'arresto del compressore.
 - In modalità di riscaldamento, utilizzare il parametro MAX (T_{SA-W} , T_S) per controllare l'avvio e l'arresto del compressore.

Il termostato è abilitato nel comando cablato, il comando di commutazione e la selezione della modalità sono effettuati mediante il termostato.

- ① Quando il termostato invia un segnale C, l'unità inizia a funzionare in modalità raffrescamento.
- ② Quando il termostato invia un segnale H, l'unità inizia a funzionare in modalità riscaldamento.
- ③ Quando il termostato non invia segnali C e H, l'unità passa allo stato di spegnimento.

Quando il termostato è acceso e il comando cablato è spento, viene segnalata l'interruzione del funzionamento e il comando cablato può essere utilizzato per spegnere il controllo dopo l'annullamento del funzionamento termostato. Il controllo del termostato può controllare solo la temperatura dell'acqua; l'interruttore del termostato non influisce sul controllo dell'acqua calda sanitaria.

Figura 1-5.3: Riscaldamento e raffrescamento ambienti e acqua calda sanitaria

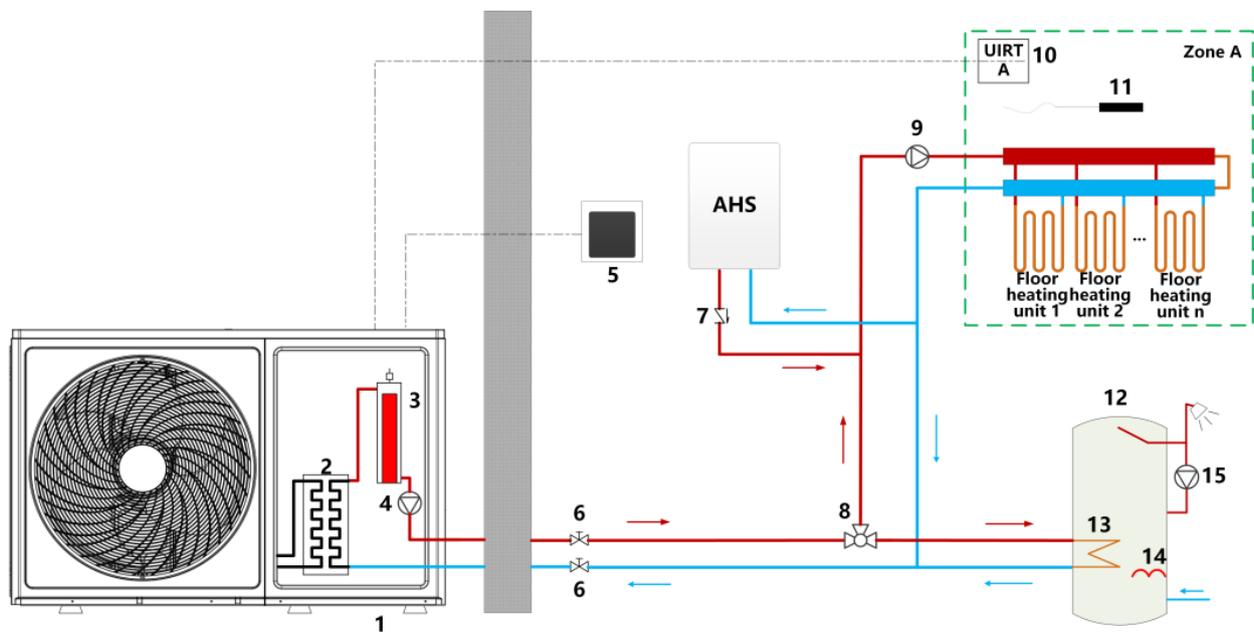


Legenda			
1	L'unità esterna	10	Pompa di circolazione esterna
2	Scambiatore di calore a piastre	1 1	Valvola a tre vie SV3
3	Riscaldatore elettrico di riserva (opzionale)	1 2	Termostato A
4	Pompa di circolazione interna	1 3	Sensore di temperatura ambiente interna zona A
5	Comando cablato	1 4	Serbatoio acqua calda sanitaria
6	Valvola di arresto	1 5	Scambiatore di calore
7	Valvola a tre vie SV2	16	Riscaldatore elettrico serbatoio acqua calda sanitaria
8	Separatore Idraulico	17	Pompa di circolazione ACS
9	Riscaldatore elettrico serbatoio di accumulo		

5.4 Riscaldamento ambienti e acqua calda sanitaria (bivalente)

5.4.1 La fonte di calore ausiliaria provvede solo al riscaldamento degli ambienti

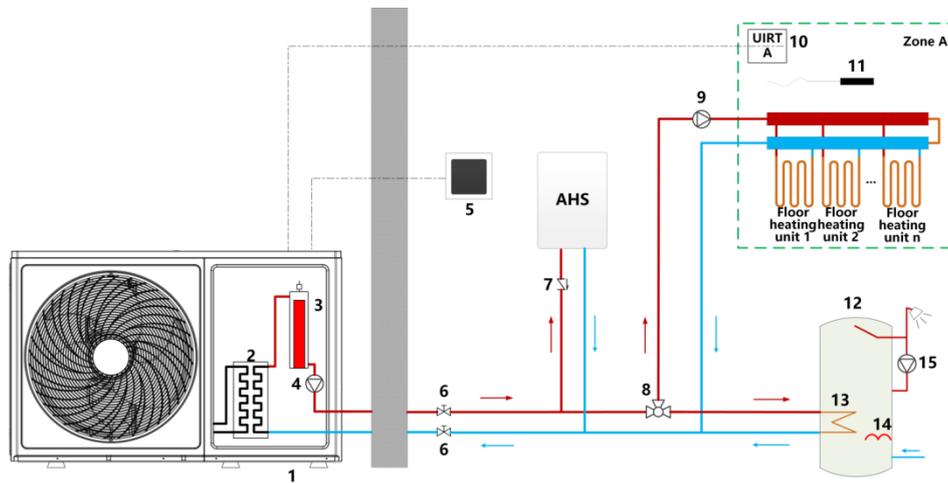
Figura 1-5.4: Riscaldamento ambiente e acqua calda sanitaria con fonte di calore ausiliaria che fornisce solo il riscaldamento degli ambienti



Legenda			
1	L'unità esterna	9	Pompa di circolazione esterna
2	Scambiatore di calore a piastre	10	Termostato A
3	Riscaldatore elettrico di riserva (opzionale)	11	Sensore di temperatura ambiente interna zona A
4	Pompa di circolazione interna	12	Serbatoio acqua calda sanitaria
5	Comando cablato	13	Scambiatore di calore
6	Valvola di arresto	14	Riscaldatore elettrico serbatoio acqua calda sanitaria
7	Valvola di ritegno	15	Pompa di circolazione ACS
8	Valvola a tre vie SV1		

5.4.2 La fonte di calore ausiliaria provvede al riscaldamento degli ambienti e alla produzione di acqua calda sanitaria

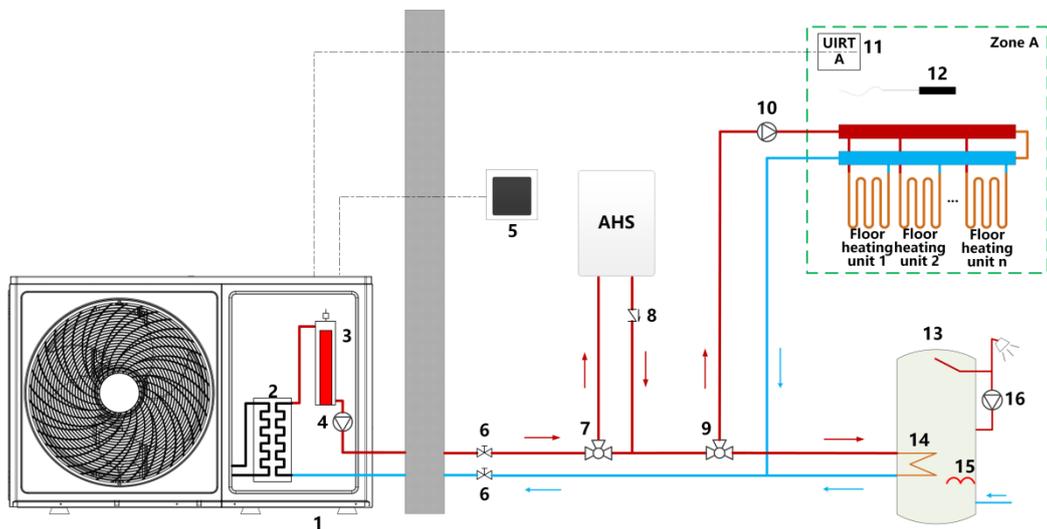
Figura 1-5.5: Riscaldamento ambiente e acqua calda sanitaria con fonte di calore ausiliaria che fornisce il riscaldamento degli ambienti e acqua calda sanitaria



Legenda			
1	L'unità esterna	9	Pompa di circolazione esterna
2	Scambiatore di calore a piastre	10	Termostato A
3	Riscaldatore elettrico di riserva (opzionale)	11	Sensore di temperatura ambiente interna zona A
4	Pompa di circolazione interna	12	Serbatoio acqua calda sanitaria
5	Comando cablato	13	Scambiatore di calore
6	Valvola di arresto	14	Riscaldatore elettrico serbatoio acqua calda sanitaria
7	Valvola di ritegno	15	Pompa di circolazione ACS
8	Valvola a tre vie SV1		

5.4.3 La fonte di calore ausiliaria fornisce un riscaldamento supplementare

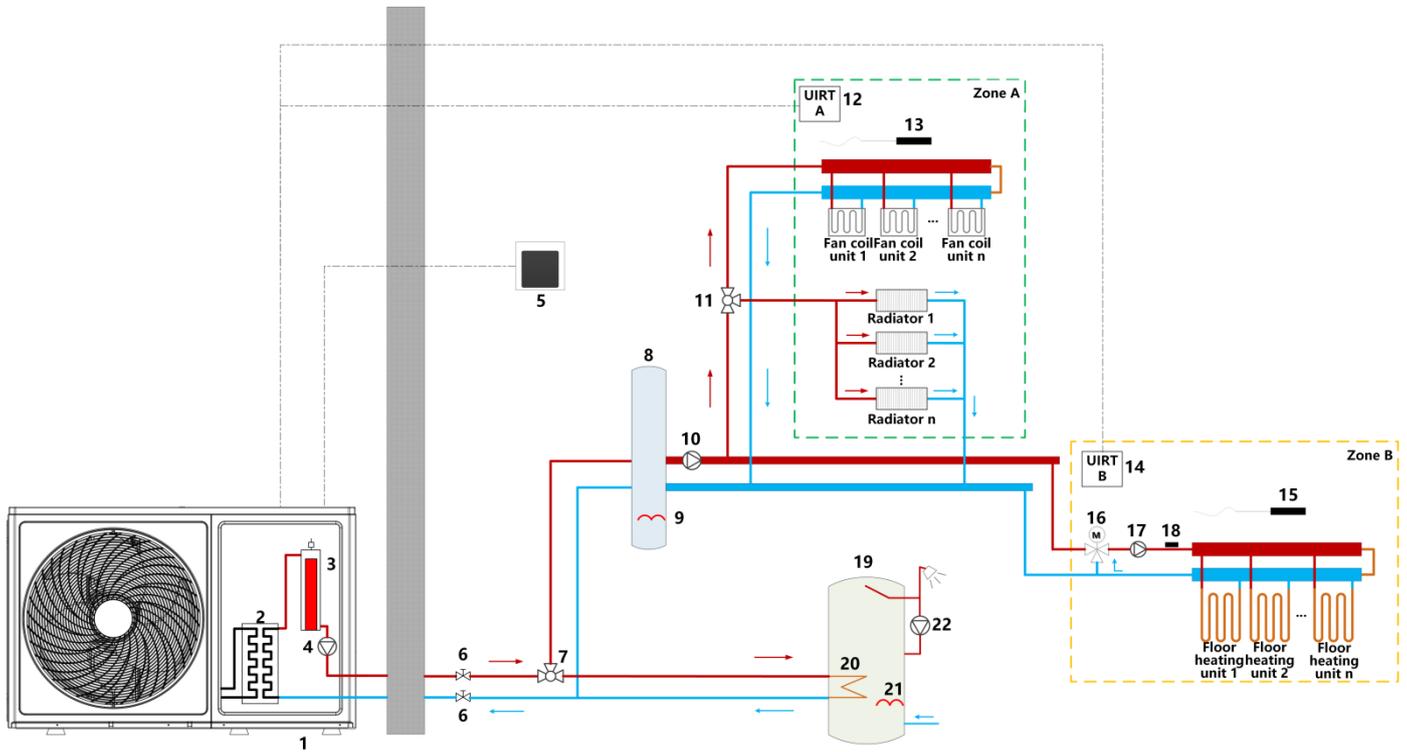
Se la temperatura dell'acqua in uscita dall'unità è troppo bassa per soddisfare i requisiti, l'AHS fornisce un riscaldamento supplementare per aumentare la temperatura dell'acqua fino al valore impostato. È necessaria valvola a tre vie SV2. Quando è richiesta l'assistenza di AHS, la valvola a tre vie SV2 si apre e l'acqua attraversa l'AHS per essere riscaldata ulteriormente. Quando la temperatura dell'acqua in uscita dall'unità raggiunge il valore nominale impostato, la valvola a tre vie SV2 si chiude.



Legenda			
1	L'unità esterna	9	Valvola a tre vie SV2
2	Scambiatore di calore a piastre	10	Pompa di circolazione esterna
3	Riscaldatore elettrico di riserva (opzionale)	11	Termostato A
4	Pompa di circolazione interna	12	Sensore di temperatura ambiente interna zona A
5	Comando cablato	13	Serbatoio acqua calda sanitaria
6	Valvola di arresto	14	Scambiatore di calore
7	Valvola a tre vie SV1	15	Riscaldatore elettrico serbatoio acqua calda sanitaria
8	Valvola di ritegno	16	Pompa di circolazione ACS

5.5 Controllo a doppia zona di temperatura

Figura 1-5.7: Riscaldamento degli ambienti tramite riscaldamento a pavimento e radiatori



Legenda			
1	L'unità esterna	12	Termostato A
2	Scambiatore di calore a piastre	13	Sensore di temperatura ambiente interna zona A
3	Riscaldatore elettrico di riserva (opzionale)	14	Termostato B
4	Pompa di circolazione interna	15	Sensore di temperatura ambiente interna zona B
5	Comando cablato	16	Valvola di miscelazione
6	Valvola di arresto	17	Pompa dell'acqua per il riscaldamento a pavimento nell'area B
7	Valvola a tre vie SV1	18	Sensore di temperatura dell'acqua di riscaldamento per la zona B
8	Separatore Idraulico	19	Serbatoio acqua calda sanitaria
9	Riscaldatore elettrico serbatoio acqua	20	Scambiatore di calore
10	Pompa di circolazione esterna	21	Riscaldatore elettrico serbatoio acqua calda sanitaria
11	Valvola a tre vie SV2	22	Pompa di circolazione ACS

Il riscaldamento a pavimento e i ventilconvettori sono utilizzati per il riscaldamento degli ambienti, mentre i

ventilconvettori sono utilizzati per il raffrescamento degli ambienti. L'acqua calda sanitaria è fornita da un serbatoio dedicato. Nella zona A e nella zona B è possibile impostare temperature target diverse a seconda delle esigenze.

Impostare il controllo bizona nel comando cablato e selezionare il tipo di carico finale: ① Zona A: ventilconvettore + radiatore, che deve essere dotato di una valvola a tre vie SV2; ② Zona B: riscaldamento a pavimento, installare una valvola di miscelazione a monte del riscaldamento a pavimento o una valvola a tre vie + serbatoio di miscelazione (è necessario scegliere se si tratta di una valvola di miscelazione o di una valvola a tre vie + serbatoio di miscelazione sul comando cablato per realizzare il controllo). Questa zona deve inoltre essere dotata di un sensore di temperatura di ingresso dell'acqua di riscaldamento a pavimento e di una pompa per il riscaldamento a pavimento. In presenza di acqua calda sanitaria, è installata una valvola a tre vie SV1; in caso contrario, non è necessaria.

È necessaria una pompa di circolazione esterna.

Sul comando cablato è possibile effettuare separatamente le seguenti impostazioni per la zona A e la zona B.

- ① Per controllare la temperatura ambiente, è necessario collegare il sensore di temperatura ambiente interna della zona A o spostare il comando cablato nell'ambiente per il campionamento. Il comando cablato visualizzerà la temperatura ambiente.
- ② Se la temperatura dell'acqua è controllata, il sensore della temperatura ambiente interna della zona A non sarà attendibile; il regolatore cablato visualizzerà la temperatura dell'acqua.
- ③ Quando la temperatura ambiente e la temperatura dell'acqua sono controllate, la T_{SA} è convertita in T_{SA-W} . Se l'utente ha impostato una curva di temperatura, il funzionamento avverrà in base alla curva corrispondente; altrimenti, sarà utilizzata la curva di temperatura 4. Il comando cablato visualizza la temperatura ambiente e la temperatura dell'acqua impostate.
 - In modalità di raffrescamento, utilizzare il parametro MIN (T_{SA-W} , T_S) per controllare l'avvio e l'arresto del compressore.
 - In modalità di riscaldamento, utilizzare il parametro MAX (T_{SA-W} , T_S) per controllare l'avvio e l'arresto del compressore.

Il termostato è abilitato nel comando cablato, il comando di commutazione e la selezione della modalità sono effettuati mediante il termostato.

- ① Quando un termostato qualsiasi della zona A e della zona B è acceso, l'unità si accende; quando due termostati sono spenti, l'unità si spegne.
- ② Quando il termostato invia un segnale C, l'unità inizia a funzionare in modalità raffrescamento;

- ③ Quando il termostato invia un segnale H, l'unità inizia a funzionare in modalità riscaldamento;
- ④ In assenza di segnali C e H sul termostato, l'unità passa allo stato di spegnimento.
- ⑤ Quando le modalità di impostazione dei due termostati sono diverse, il termostato valuterà quale modalità eseguire in base alla modalità automatica; in caso di incertezza sulla modalità da eseguire, funzionerà in base alla modalità di riscaldamento.
- ⑥ Quando il termostato è acceso e il comando cablato è spento, viene segnalata l'interruzione del funzionamento e il comando cablato può essere utilizzato per spegnere il controllo dopo l'annullamento del funzionamento termostato. Quando si seleziona il controllo con termostato, è possibile controllare solo la temperatura dell'acqua e l'interruttore del termostato non influirà sul controllo relativo all'acqua calda sanitaria.

5.6 Riscaldamento e raffrescamento ambienti e produzione di acqua calda sanitaria compatibili con boiler solare

Il riscaldamento a pavimento è utilizzato per il riscaldamento degli ambienti, mentre i ventilconvettori sono utilizzati per il riscaldamento/raffrescamento degli ambienti. L'acqua calda sanitaria è fornita dal serbatoio dell'acqua calda collegato sia alla scatola idronica sia al boiler solare. A seconda delle esigenze, è possibile impostare temperature target diverse per ciascuna zona di temperatura.

Impostare il controllo multizona nel comando cablato e selezionare il tipo di carico finale: ① Zona A: ventilconvettore + radiatore; la zona deve essere dotata di una valvola a tre vie SV2; ② Zona B: riscaldamento a pavimento. Installare una valvola di miscelazione dell'acqua a monte del riscaldamento a pavimento o una valvola a tre vie + serbatoio di miscelazione (è necessario scegliere se si tratta di una valvola di miscelazione o di una valvola a tre vie + serbatoio di miscelazione sul comando cablato per ottenere il controllo); inoltre la zona deve essere dotata di un sensore di temperatura di ingresso dell'acqua per il riscaldamento a pavimento e di una pompa per il riscaldamento a pavimento; ③ Zona C: tubo a pannello per riscaldamento a pavimento. Installare una valvola di miscelazione o una valvola a tre vie + serbatoio di miscelazione a monte del riscaldamento a pavimento (è necessario selezionare una valvola di miscelazione o una valvola a tre vie + serbatoio di miscelazione sul comando cablato per ottenere il controllo) e la zona deve essere dotata di un pozzetto di rilevamento della temperatura dell'acqua per il riscaldamento a pavimento e di una pompa dell'acqua per il riscaldamento a pavimento. In presenza di acqua calda sanitaria, è installata una valvola a tre vie SV1; in caso contrario, non è necessaria una pompa di circolazione esterna.

È possibile impostare separatamente le seguenti impostazioni per le zone A, B e C tramite il comando cablato.

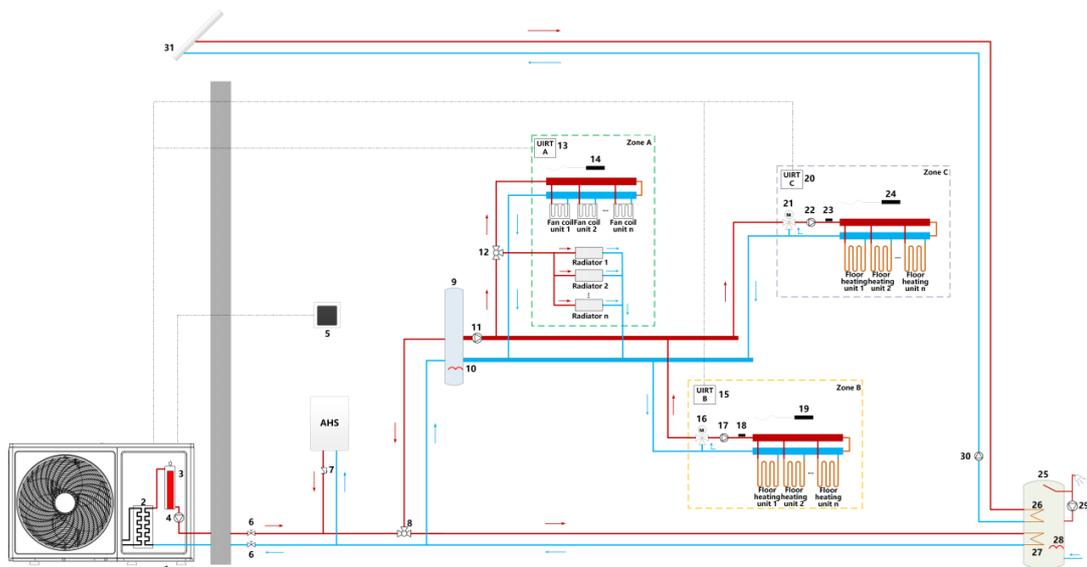
- ① Per controllare la temperatura ambiente, è necessario collegare il sensore di temperatura ambiente interna della zona A o spostare il comando cablato nell'ambiente per il campionamento. Il comando cablato visualizzerà la temperatura ambiente.

- ② Se la temperatura dell'acqua è controllata, il sensore della temperatura ambiente interna della zona A non sarà attendibile; il regolatore cablato visualizzerà la temperatura dell'acqua.
- ③ Quando la temperatura ambiente e la temperatura dell'acqua sono controllate, la T_{SA} è convertita in T_{SA-W} . Se l'utente ha impostato una curva di temperatura, il funzionamento avverrà in base alla curva corrispondente; altrimenti, sarà utilizzata la curva di temperatura 4. Il comando cablato visualizza la temperatura ambiente e la temperatura dell'acqua impostate.
- In modalità di raffrescamento, utilizzare il parametro MIN (T_{SA} , T_S) per controllare l'avvio e l'arresto del compressore.
 - In modalità di riscaldamento, utilizzare il parametro MAX (T_{SA} , T_S) per controllare l'avvio e l'arresto del compressore.

Il termostato è abilitato nel comando cablato, il comando di commutazione e la selezione della modalità sono effettuati mediante il termostato.

- ① Quando un termostato qualsiasi è acceso, l'unità si accende; quando tutti termostati sono spenti, l'unità si spegne.
- ② Quando il termostato invia un segnale C, l'unità inizia a funzionare in modalità raffrescamento.
- ③ Quando il termostato invia un segnale H, l'unità inizia a funzionare in modalità riscaldamento;
- ④ In assenza di segnali C e H sul termostato, l'unità passa allo stato di spegnimento.
- ⑤ Quando le modalità di impostazione dei due termostati sono diverse, il termostato valuterà quale modalità eseguire in base alla modalità automatica; in caso di incertezza sulla modalità da eseguire, funzionerà in base alla modalità di riscaldamento.
- ⑥ Quando il termostato è acceso e il comando cablato è spento, viene segnalata l'interruzione del funzionamento e il comando cablato può essere utilizzato per spegnere il controllo dopo l'annullamento del funzionamento termostato. Quando si seleziona il controllo con termostato, è possibile controllare solo la temperatura dell'acqua e l'interruttore del termostato non influirà sul controllo relativo all'acqua calda sanitaria.

Figura 1-5.8: Riscaldamento e raffrescamento ambienti e produzione di acqua calda sanitaria compatibile con boiler solare



Legenda			
1	L'unità esterna	17	Pompa dell'acqua per il riscaldamento a pavimento zona B
2	Scambiatore di calore a piastre	18	Sensore di temperatura dell'acqua di riscaldamento per la zona B
3	Riscaldatore elettrico di riserva (opzionale)	19	Sensore di temperatura ambiente interna zona B
4	Pompa di circolazione interna	20	Termostato C
5	Comando cablato	21	Valvola di miscelazione zona C
6	Valvola di arresto	22	Pompa dell'acqua per il riscaldamento a pavimento zona C
7	Valvola di ritegno	23	Sensore di temperatura ingresso acqua riscaldamento a pavimento zona C
8	Valvola a tre vie SV1	24	Sensore di temperatura ambiente interna zona C
9	Separatore Idraulico	25	Serbatoio acqua calda sanitaria
10	Riscaldatore elettrico serbatoio tampone acqua	26	Scambiatore di calore solare
11	Pompa di circolazione esterna	27	Scambiatore di calore acqua calda
12	Valvola a tre vie SV2	28	Riscaldatore elettrico serbatoio acqua calda sanitaria
13	Termostato A	29	Pompa di circolazione ACS
14	Sensore di temperatura ambiente interna zona A	30	Pompa dell'acqua a energia solare
15	Termostato B	31	Collettore solare

16	Valvola di miscelazione per zona B		
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Nota:

Requisiti per il volume del serbatoio di bilanciamento.

Per THMLd-4(6,8,10)D/3HBp-A, volume del serbatoio di bilanciamento ≥ 25 l

Per THMLd-4(6,8,10)D/3HBp-A, volume del serbatoio di bilanciamento ≥ 40 l

Parte 2 Dati tecnici

1 Specifiche

Tabella 2-1.1: Specifiche THMLd-4(6,8,10)D/HBp-A₁

Nome modello			THMLd-4D/3HB p-A	THMLd-6D/3HB p-A	THMLd-8D/3HB p-A	THMLd-10D/3HB p-A
Alimentazione	V/Ph/Hz		220-240/1/50		220-240/1/50	
Riscaldamento A7W35	Capacità	kW	4.10	6.10	8.00	9.50
	Potenza in ingresso nominale	kW	0.81	1.21	1.60	1.98
	COP		5.06	5.04	5.00	4.80
Riscaldamento A7W45	Capacità	kW	4.30	6.30	8.00	9.50
	Potenza in ingresso nominale	kW	1.15	1.71	2.11	2.60
	COP		3.74	3.68	3.80	3.65
Riscaldamento A7W55	Capacità	kW	4.40	6.10	7.40	9.00
	Potenza in ingresso nominale	kW	1.51	2.05	2.38	3.00
	COP		2.91	2.98	3.11	3.00
Raffrescamento A35W18	Capacità	kW	4.50	6.55	8.00	9.50
	Potenza in ingresso nominale	kW	0.83	1.35	1.67	2.07
	EER		5.42	4.85	4.80	4.60
Raffrescamento A35W7	Capacità	kW	4.60	6.95	7.00	8.00
	Potenza in ingresso nominale	kW	1.35	2.34	2.14	2.53
	EER		3.41	2.97	3.27	3.16
Classe di efficienza energetica stagionale per il riscaldamento degli ambienti	LWT a 35°C		A+++			
	LWT a 55°C		A++			
SCOP	LWT a 35°C		4.75	4.82	4.90	4.87
	LWT a 55°C		3.27	3.48	3.44	3.41
Livello di potenza sonora ³	Riscaldamento A7W35	dB	56	58	60	61
Refrigerante (R32)			1.25kg	1.25kg	1.40kg	1.40kg
Dimensioni unità (LxAxP)		mm	1220×704×390		1293×860×494	
Dimensioni imballaggio (LxAxP)		mm	1315×810×430		1395×996×535	

Peso netto/lordo		kg	74.0/97.0	95.0/116.0
Campo di funzionamento	Raffrescamento	°C	-5~43	
	Riscaldamento	°C	-25~35	
	ACS	°C	-25~43	
Scambiatore di calore lato acqua		Tipo a piastre		
Connessione lato acqua		R1"		R5/4"
Uscita acqua	Raffrescamento	°C	5~20	
	Riscaldamento	°C	25~65	
	ACS	°C	20~60	

Tabella 2-1.1: Specifiche THMLd-12(14,16)D/HBp-A, THMLd-12(14,16)S/HBp-A

Nome modello			THMLd-12D /3HBp-A	THMLd-14D/ 3HBp-A	THMLd-16 D/3HBp-A	THMLd-12S /6(9)HBp-A	THMLd-14D /6(9)HBp-A	THMLd-16D /6(9)HBp-A
Alimentazione	V/Ph/Hz		220-240/1/50			380-415/3/50		
Riscaldamento A7W35	Capacità	kW	12.10	14.50	16.00	12.10	14.50	16.00
	Potenza in ingresso nominale	kW	2.42	3.05	3.54	2.42	3.05	3.54
	COP		5.00	4.75	4.52	5.00	4.75	4.52
Riscaldamento A7W45	Capacità	kW	12.05	14.25	16.00	12.05	14.25	16.00
	Potenza in ingresso nominale	kW	3.14	3.83	4.42	3.14	3.83	4.42
	COP		3.84	3.73	3.62	3.84	3.73	3.62
Riscaldamento A7W55	Capacità	kW	12.00	14.00	16.00	12.00	14.00	16.00
	Potenza in ingresso nominale	kW	3.85	4.65	5.49	3.85	4.65	5.49
	COP		3.12	3.01	2.91	3.12	3.01	2.91
Raffrescamento A35W18	Capacità	kW	12.00	13.50	15.00	12.00	13.50	15.00
	Potenza in ingresso nominale	kW	3.00	3.60	4.39	3.00	3.60	4.39
	EER		4.00	3.75	3.42	4.00	3.75	3.42
Raffrescamento A35W7	Capacità	kW	11.60	12.95	14.30	11.60	12.95	14.30
	Potenza in ingresso nominale	kW	4.20	4.98	5.70	4.20	4.98	5.70

	EER		2.76	2.60	2.51	2.76	2.60	2.51
Classe di efficienza energetica stagionale per il riscaldamento degli ambienti	LWT a 35°C	A+++						
	LWT a 55°C	A++						
SCOP	LWT a 35°C		4.70	4.58	4.56	4.70	4.58	4.56
	LWT a 55°C		3.48	3.35	3.44	3.48	3.35	3.44
Livello di potenza sonora ³	Riscaldamento A7W35	dB	64	66	68	64	66	68
Refrigerante (R32)			1.74kg	1.74kg	1.74kg	1.74kg	1.74kg	1.74kg
Dimensioni unità (LxAxP)		mm	1293×860×494					
Dimensioni imballaggio (LxAxP)		mm	1395×996×535					
Peso netto/lordo		kg	112.0/133.0			112.0/133.0		
Campo di funzionamento	Raffrescamento	°C	-5~43					
	Riscaldamento	°C	-25~35					
	ACS	°C	-25~43					
Scambiatore di calore lato acqua			Tipo a piastre					
Connessione lato acqua			R5/4"					
Uscita acqua	Raffrescamento	°C	5~20					
	Riscaldamento	°C	25~65					
	ACS	°C	20~60					

Nota: 1.Norme e legislazione UE pertinenti: EN14511; EN14825; EN50564; EN12102; (EU) No 811:2013; (EU) No 813:2013; OJ 2014/C 207/02:2014.

2.Classe di efficienza energetica per il riscaldamento stagionale degli ambienti, testata in condizioni climatiche medie.

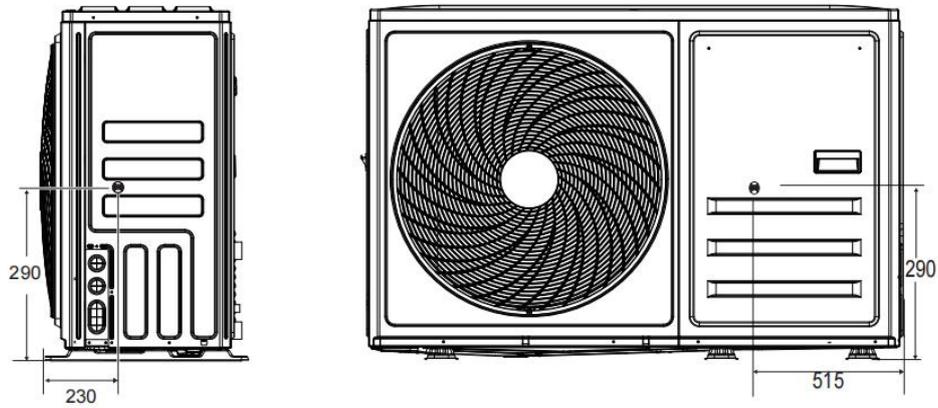
3.Norma di prova: EN12102- 1

4 Il livello di pressione sonora è il valore massimo testato nelle due condizioni A7W35 e A35W18.

2 Dimensioni e baricentro

Figura 2-2.1: Dimensioni e baricentro di THMLd-4(6)D/HBp-A (unità di misura: mm)

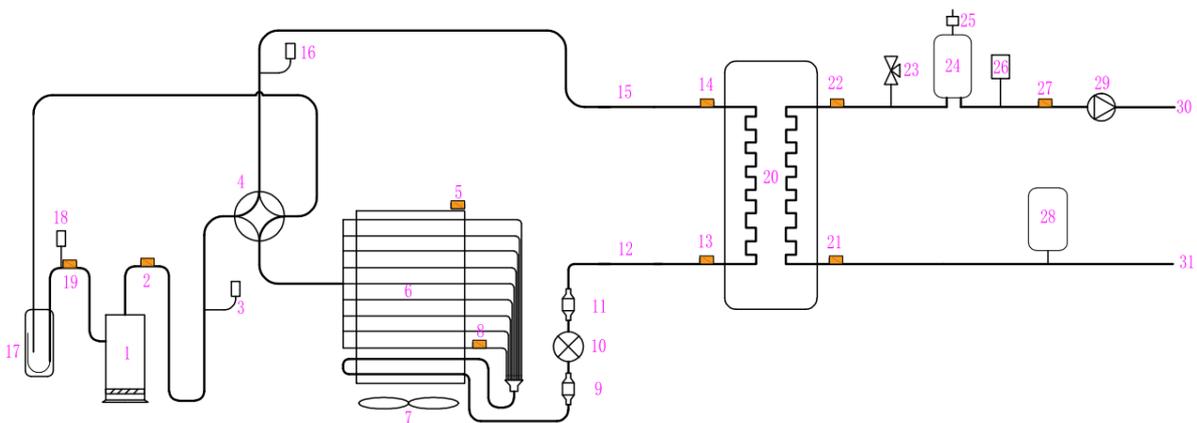
Figura 2-2.1: Dimensioni e baricentro di THMLd-8(10)D/HBp-A, THMLd-12(14,16)D/HBp-A, THF-12(14,16)S/HBp-A (unità di misura: mm)



3 Schemi delle tubazioni

3.1 Unità esterna

Figura 2-3.1: Schema delle tubazioni delle unità



Legenda			
1	Compressore	17	Separatore gas-liquido
2	Sensore di temperatura in aspirazione	18	Pressostato di bassa pressione (opzionale)
3	Pressostato di alta pressione (opzionale)	19	Sensore di temperatura in aspirazione

4	Valvola a quattro vie	20	Scambiatore di calore a piastre
5	Sensore di temperatura ambiente	21	Sensore di temperatura acqua in ingresso allo scambiatore di calore a piastre
6	Condensatore	22	Sensore di temperatura acqua in uscita dallo scambiatore di calore a piastre
7	Ventola	23	Valvola di sicurezza
8	Sensore di temperatura tubi condensatore	24	Riscaldatore elettrico ausiliario
9	Filtro	25	Valvola di scarico automatica
10	Valvola di espansione elettronica	26	Flussostato
11	Filtro	27	Sensore di temperatura di uscita totale acqua
12	Lato refrigerante liquido	28	Vaso di espansione
13	Sensore di temperatura del tubo del refrigerante liquido (modalità riscaldamento)	29	Pompa dell'acqua
14	Sensore di temperatura del tubo del refrigerante gassoso (modalità riscaldamento)	30	Acqua in uscita
15	Lato refrigerante gassoso	31	Acqua in ingresso
16	Sensore di pressione		

5 Tabelle di capacità

5.1 Tabelle per la capacità di riscaldamento (Norma di prova: EN14511)

Tabella 2-5.1: Capacità di riscaldamento per THMLd-8D/HBp-A

DB	LWT																											
	livello HC	25			30			35			40			45			50			55			60			65		
		HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP
-25	max	4.36	2.04	2.14	3.92	2.08	1.88	3.55	2.28	1.56	3.29	2.21	1.49	2.75	2.21	1.24	/	/	/	/	/	/	/	/	/	/	/	/
	norm	4.03	1.84	2.18	3.61	1.86	1.94	3.24	2.04	1.59	3.06	2.05	1.49	2.59	2.09	1.24	/	/	/	/	/	/	/	/	/	/	/	/
	min	2.62	1.18	2.21	2.43	1.23	1.97	2.46	1.52	1.62	2.34	1.55	1.51	1.73	1.40	1.24	/	/	/	/	/	/	/	/	/	/	/	/
-20	max	5.57	2.09	2.66	4.99	2.19	2.27	4.69	2.33	2.01	4.26	2.51	1.69	3.63	2.34	1.55	3.11	2.31	1.35	2.58	2.12	1.22	/	/	/	/	/	/
	norm	5.10	1.84	2.76	4.54	1.94	2.34	4.23	2.05	2.06	3.90	2.27	1.72	3.36	2.15	1.56	2.90	2.12	1.37	2.48	2.02	1.23	/	/	/	/	/	/
	min	3.12	1.11	2.80	2.70	1.13	2.38	2.72	1.29	2.11	2.72	1.56	1.75	2.24	1.43	1.57	2.15	1.55	1.38	1.88	1.53	1.23	/	/	/	/	/	/
-15	max	6.76	2.13	3.17	6.31	2.28	2.76	6.05	2.61	2.32	5.49	2.54	2.16	5.18	2.70	1.92	4.58	2.75	1.66	4.87	2.95	1.65	3.99	2.90	1.38	/	/	/
	norm	6.12	1.84	3.32	5.68	1.99	2.86	5.40	2.24	2.41	4.97	2.25	2.21	4.60	2.36	1.95	4.08	2.41	1.69	4.49	2.68	1.68	3.72	2.69	1.38	/	/	/
	min	3.16	0.93	3.40	3.06	1.05	2.91	2.88	1.16	2.47	3.08	1.35	2.28	3.31	1.67	1.98	3.16	1.84	1.72	3.31	1.94	1.71	2.84	2.03	1.40	/	/	/
-10	max	7.30	2.08	3.51	7.13	2.22	3.21	7.01	2.34	3.00	6.77	2.71	2.50	6.63	2.79	2.37	6.19	2.94	2.11	5.99	3.08	1.94	5.20	2.92	1.78	/	/	/
	norm	6.53	1.76	3.71	6.35	1.90	3.35	6.19	2.00	3.10	6.07	2.37	2.56	6.02	2.51	2.40	5.64	2.63	2.14	5.45	2.78	1.96	4.78	2.70	1.77	/	/	/
	min	2.90	0.76	3.81	2.78	0.81	3.45	2.77	0.87	3.17	3.52	1.34	2.63	4.02	1.64	2.45	4.20	1.92	2.19	4.14	2.07	2.00	3.72	2.06	1.81	/	/	/
-7	max	7.49	2.09	3.58	7.32	2.24	3.26	7.20	2.35	3.06	6.95	2.72	2.56	6.80	2.82	2.42	6.35	2.95	2.15	6.13	3.10	1.98	5.33	2.94	1.81	/	/	/
	norm	7.12	1.88	3.78	6.97	2.05	3.40	7.10	2.27	3.13	6.62	2.47	2.68	6.47	2.64	2.45	6.05	2.72	2.22	6.06	3.03	2.00	5.08	2.74	1.85	/	/	/
	min	1.79	0.46	3.87	1.69	0.48	3.52	1.80	0.55	3.27	3.08	1.10	2.79	3.34	1.31	2.56	3.31	1.47	2.26	3.52	1.69	2.09	3.42	1.82	1.89	/	/	/
-5	max	7.89	2.06	3.83	7.81	2.20	3.55	7.61	2.49	3.06	7.35	2.65	2.77	7.29	2.83	2.58	7.20	3.05	2.36	6.36	2.97	2.14	6.05	3.06	1.98	/	/	/
	norm	7.11	1.76	4.03	6.97	1.90	3.67	6.62	2.08	3.18	6.47	2.20	2.93	6.36	2.38	2.68	6.16	2.53	2.44	5.48	2.48	2.21	5.39	2.67	2.02	/	/	/
	min	2.15	0.52	4.17	2.05	0.54	3.79	2.15	0.66	3.28	3.18	1.06	3.00	3.53	1.30	2.72	3.70	1.49	2.49	3.60	1.61	2.24	3.71	1.81	2.06	/	/	/
0	max	8.08	1.78	4.53	8.38	2.06	4.07	8.41	2.34	3.59	8.28	2.61	3.18	7.93	2.81	2.83	7.95	3.01	2.64	7.00	3.02	2.32	6.86	3.22	2.13	/	/	/
	norm	7.45	1.60	4.67	7.62	1.83	4.18	7.59	2.06	3.69	7.63	2.37	3.22	7.02	2.40	2.93	7.24	2.69	2.69	6.24	2.66	2.35	6.04	2.84	2.13	/	/	/
	min	2.17	0.45	4.78	2.39	0.55	4.34	2.35	0.61	3.82	3.57	1.07	3.33	3.50	1.16	3.01	4.04	1.47	2.75	3.75	1.56	2.41	4.06	1.87	2.18	/	/	/
5	max	8.68	1.53	5.66	8.77	1.85	4.75	8.94	1.98	4.52	8.66	2.36	3.67	8.52	2.62	3.25	8.13	2.82	2.89	7.45	2.77	2.69	7.12	2.95	2.41	3.77	3.34	1.13
	norm	7.93	1.35	5.88	7.92	1.61	4.91	8.00	1.71	4.68	7.92	2.10	3.77	7.47	2.19	3.41	7.35	2.48	2.97	6.59	2.39	2.75	6.22	2.55	2.44	3.22	2.77	1.16
	min	2.84	0.46	6.13	3.04	0.59	5.14	3.03	0.62	4.89	3.99	1.02	3.92	4.01	1.14	3.51	4.38	1.44	3.05	4.22	1.48	2.84	4.43	1.76	2.51	2.40	2.03	1.18
7	max	9.32	1.49	6.24	9.02	1.76	5.11	9.02	1.80	5.01	8.73	2.18	4.00	8.80	2.40	3.67	8.26	2.71	3.04	7.69	2.53	3.05	7.25	2.71	2.67	3.96	3.06	1.29
	norm	8.43	1.30	6.49	8.05	1.50	5.37	8.01	1.60	5.01	7.89	1.90	4.16	8.04	2.12	3.79	7.38	2.34	3.16	7.40	2.38	3.10	6.26	2.30	2.73	3.34	2.51	1.33
	min	3.33	0.49	6.74	3.39	0.61	5.54	3.24	0.61	5.32	4.11	0.95	4.34	4.75	1.19	3.98	5.13	1.57	3.26	4.88	1.50	3.24	4.76	1.69	2.81	2.61	1.93	1.35
10	max	9.95	1.39	7.15	9.09	1.62	5.61	8.63	1.65	5.23	8.58	2.08	4.12	8.57	2.28	3.75	8.11	2.47	3.29	8.09	2.50	3.23	7.51	2.77	2.71	5.42	2.70	2.01
	norm	8.87	1.17	7.55	7.96	1.36	5.87	7.61	1.41	5.40	7.66	1.79	4.27	7.75	2.04	3.80	7.50	2.22	3.37	7.04	2.13	3.30	6.90	2.50	2.76	4.77	2.32	2.06
	min	3.02	0.38	7.92	2.67	0.43	6.22	2.73	0.49	5.58	3.87	0.85	4.52	4.64	1.17	3.95	4.89	1.40	3.50	5.10	1.48	3.43	5.03	1.75	2.86	3.69	1.75	2.10
15	max	9.66	1.15	8.38	9.20	1.36	6.78	8.77	1.54	5.70	8.94	1.82	4.91	8.73	2.07	4.22	8.24	2.27	3.62	8.20	2.36	3.47	7.69	2.54	3.03	5.54	2.44	2.27
	norm	8.78	0.96	9.17	8.15	1.11	7.33	7.83	1.30	6.04	8.09	1.55	5.23	7.99	1.83	4.37	7.69	2.02	3.81	7.23	2.01	3.60	7.14	2.28	3.12	5.03	2.15	2.34
	min	3.78	0.39	9.66	3.62	0.47	7.71	3.43	0.54	6.34	4.14	0.75	5.51	4.84	1.06	4.56	5.09	1.28	3.99	5.91	1.57	3.77	5.61	1.77	3.16	3.71	1.55	2.39
20	max	9.46	0.98	9.66	9.32	1.16	8.01	9.00	1.35	6.69	9.32	1.64	5.69	8.90	1.85	4.82	8.36	2.06	4.06	8.31	2.14	3.88	7.87	2.32	3.40	/	/	/
	norm	8.64	0.81	10.62	8.29	0.96	8.65	8.08	1.13	7.13	8.46	1.39	6.08	8.19	1.62	5.05	7.85	1.83	4.30	7.37	1.82	4.05	7.35	2.15	3.41	/	/	/
	min	4.25	0.38	11.16	4.57	0.50	9.14	4.77	0.63	7.54	5.87	0.91	6.47	5.52	1.04	5.30	5.44	1.20	4.52	5.57	1.31	4.24	5.27	1.47	3.58	/	/	/
25	max	9.23	0.93	9.96	8.82	1.05	8.40	8.44	1.17	7.20	9.02	1.48	6.08	8.83	1.58	5.58	8.44	1.91	4.42	7.98	1.92	4.16	7.47	2.05	3.64	/	/	/
	norm	8.22	0.75	10.94	8.01	0.88	9.13	7.85	1.00	7.85	8.35	1.27	6.59	8.27	1.41	5.88	8.07	1.71	4.71	7.21	1.66	4.35	7.11	1.93	3.69	/	/	/

	min	5.08	0.43	11.73	5.20	0.54	9.63	5.40	0.65	8.27	6.59	0.95	6.95	6.35	1.03	6.16	6.33	1.28	4.97	5.73	1.25	4.57	5.46	1.41	3.88	/	/	/
30	max	9.00	0.85	10.52	8.32	0.95	8.77	8.01	1.07	7.48	8.73	1.33	6.57	8.75	1.46	6.00	8.51	1.77	4.79	7.73	1.75	4.42	7.08	1.82	3.90	/	/	/
	norm	8.07	0.69	11.69	7.60	0.79	9.67	7.37	0.92	8.03	8.12	1.14	7.11	8.25	1.30	6.37	8.18	1.59	5.14	7.03	1.50	4.67	6.78	1.70	3.98	/	/	/
	min	5.17	0.42	12.25	5.12	0.50	10.24	5.24	0.61	8.57	5.98	0.79	7.53	6.43	0.96	6.71	6.60	1.22	5.39	5.75	1.17	4.91	5.35	1.28	4.19	/	/	/
35	max	9.36	0.87	10.82	8.65	0.95	9.12	8.33	1.08	7.70	9.07	1.35	6.72	9.10	1.49	6.11	8.85	1.76	5.01	8.05	1.82	4.43	/	/	/	/	/	/
	norm	8.46	0.70	12.08	7.97	0.80	10.01	7.73	0.92	8.42	8.52	1.15	7.38	8.65	1.33	6.53	8.58	1.58	5.42	7.38	1.50	4.90	/	/	/	/	/	/
	min	6.27	0.49	12.69	5.88	0.55	10.68	5.47	0.61	8.94	6.26	0.79	7.89	6.73	0.98	6.88	7.08	1.24	5.69	6.27	1.21	5.17	/	/	/	/	/	/
40	max	9.80	0.90	10.94	9.08	0.95	9.58	8.74	1.07	8.16	9.52	1.36	7.01	9.56	1.54	6.20	9.29	1.77	5.23	/	/	/	/	/	/	/	/	/
	norm	9.02	0.72	12.50	8.22	0.77	10.75	7.88	0.89	8.88	8.69	1.12	7.74	8.83	1.33	6.66	8.76	1.53	5.73	/	/	/	/	/	/	/	/	/
	min	6.68	0.50	13.24	6.09	0.54	11.26	6.21	0.65	9.52	6.86	0.83	8.23	7.26	1.03	7.05	7.53	1.25	6.00	/	/	/	/	/	/	/	/	/
43	max	10.09	0.87	11.67	9.36	0.87	10.79	9.01	1.03	8.74	9.81	1.31	7.50	9.80	1.50	6.54	9.57	1.64	5.83	/	/	/	/	/	/	/	/	/
	norm	9.37	0.71	13.18	8.55	0.70	12.14	8.19	0.85	9.68	9.03	1.08	8.35	9.17	1.29	7.14	9.09	1.42	6.41	/	/	/	/	/	/	/	/	/
	min	6.99	0.49	14.13	6.36	0.50	12.73	6.49	0.63	10.26	7.17	0.80	8.92	7.67	1.03	7.45	7.95	1.18	6.72	/	/	/	/	/	/	/	/	/

Abbreviazioni:

LWT: Temperatura dell'acqua in uscita (°C)

DB: Temperatura a bulbo secco per la temperatura dell'aria esterna (°C)

HC: Capacità di riscaldamento totale (kW)

PI: Potenza in ingresso (kW)

Tabella 2-5.2: Capacità di riscaldamento per THMLd-10D/HBp-A

DB	LWT																											
	livello HC	25			30			35			40			45			50			55			60			65		
		HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP
-25	max	4.49	2.06	2.18	4.04	2.12	1.90	3.70	2.30	1.61	3.40	2.26	1.50	2.81	2.24	1.26	/	/	/	/	/	/	/	/	/	/	/	/
	norm	4.16	1.87	2.22	3.72	1.89	1.96	3.38	2.07	1.63	3.15	2.09	1.50	2.64	2.12	1.25	/	/	/	/	/	/	/	/	/	/	/	/
	min	2.70	1.19	2.26	2.51	1.26	1.98	2.56	1.55	1.66	2.41	1.58	1.53	1.78	1.42	1.25	/	/	/	/	/	/	/	/	/	/	/	/
-20	max	5.74	2.12	2.70	5.14	2.24	2.29	4.88	2.36	2.06	4.39	2.58	1.70	3.70	2.37	1.56	3.17	2.37	1.34	2.71	2.22	1.22	/	/	/	/	/	/
	norm	5.25	1.87	2.80	4.68	1.98	2.36	4.41	2.07	2.13	4.02	2.31	1.74	3.43	2.18	1.57	2.95	2.19	1.35	2.61	2.13	1.22	/	/	/	/	/	/
	min	3.22	1.12	2.87	2.77	1.15	2.41	2.83	1.30	2.17	2.81	1.59	1.77	2.29	1.45	1.58	2.19	1.61	1.37	1.98	1.60	1.24	/	/	/	/	/	/
-15	max	6.97	2.15	3.24	6.51	2.34	2.78	6.30	2.65	2.38	5.65	2.60	2.18	5.29	2.73	1.94	4.66	2.85	1.64	5.12	3.10	1.65	3.99	2.99	1.33	/	/	/
	norm	6.31	1.86	3.38	5.86	2.03	2.88	5.62	2.26	2.48	5.12	2.29	2.23	4.69	2.39	1.97	4.16	2.48	1.67	4.72	2.82	1.68	3.71	2.78	1.34	/	/	/
	min	3.25	0.94	3.46	3.16	1.07	2.95	3.00	1.18	2.54	3.17	1.38	2.29	3.38	1.69	2.00	3.22	1.90	1.70	3.48	2.04	1.70	2.83	2.09	1.35	/	/	/
-10	max	8.04	2.33	3.44	7.81	2.54	3.08	7.73	2.68	2.89	7.37	2.89	2.55	7.01	3.07	2.28	6.68	3.34	2.00	6.57	3.65	1.80	5.11	3.18	1.61	/	/	/
	norm	7.19	1.97	3.64	6.96	2.15	3.23	6.81	2.28	2.98	6.60	2.53	2.61	6.36	2.75	2.31	6.09	2.99	2.04	5.99	3.29	1.82	4.71	2.94	1.60	/	/	/
	min	3.19	0.85	3.74	3.05	0.92	3.31	3.05	0.99	3.08	3.83	1.42	2.69	4.25	1.80	2.36	4.54	2.19	2.07	4.55	2.45	1.86	3.68	2.24	1.64	/	/	/
-7	max	8.37	2.29	3.65	8.14	2.49	3.26	8.14	2.64	3.09	7.68	2.84	2.71	7.30	3.02	2.42	6.96	3.29	2.11	6.94	3.60	1.93	5.33	3.13	1.70	/	/	/
	norm	7.95	2.11	3.76	7.85	2.33	3.36	8.09	2.65	3.06	7.17	2.57	2.79	6.98	2.85	2.45	6.65	3.07	2.17	6.75	3.50	1.93	4.88	2.82	1.73	/	/	/
	min	2.01	0.51	3.93	1.87	0.54	3.46	2.01	0.62	3.26	3.40	1.15	2.95	3.58	1.40	2.57	3.63	1.64	2.22	3.93	1.97	2.00	3.42	1.93	1.77	/	/	/
-5	max	8.45	2.14	3.94	8.51	2.47	3.44	8.62	2.67	3.23	8.16	2.97	2.75	7.77	3.06	2.54	7.64	3.30	2.31	7.13	3.25	2.19	5.82	3.13	1.86	/	/	/
	norm	7.61	1.82	4.17	7.58	2.12	3.57	7.28	2.19	3.33	7.19	2.47	2.91	6.77	2.57	2.63	6.54	2.75	2.38	6.15	2.72	2.26	5.19	2.74	1.90	/	/	/
	min	2.29	0.53	4.32	2.23	0.60	3.70	2.36	0.69	3.40	3.54	1.18	3.00	3.75	1.40	2.69	3.92	1.62	2.43	4.03	1.75	2.30	3.57	1.85	1.93	/	/	/
0	max	8.67	1.83	4.73	8.99	2.31	3.88	9.08	2.52	3.60	8.93	2.96	3.02	8.45	3.07	2.75	8.38	3.30	2.54	7.75	3.24	2.39	6.64	3.33	1.99	/	/	/
	norm	8.00	1.64	4.87	8.18	2.05	3.98	8.20	2.22	3.70	8.23	2.69	3.06	7.48	2.62	2.85	7.63	2.95	2.59	6.91	2.81	2.46	5.85	2.94	1.99	/	/	/
	min	2.32	0.46	5.04	2.57	0.62	4.14	2.54	0.66	3.82	3.85	1.21	3.18	3.72	1.28	2.92	4.26	1.61	2.65	4.15	1.65	2.52	3.93	1.93	2.04	/	/	/
5	max	9.54	1.73	5.50	9.57	2.07	4.61	9.60	2.23	4.31	9.75	2.67	3.66	9.30	2.85	3.26	8.98	3.17	2.83	8.60	3.20	2.68	7.46	3.23	2.31	4.34	3.33	1.30
	norm	8.73	1.53	5.69	8.64	1.81	4.76	8.62	1.92	4.49	8.91	2.37	3.75	8.15	2.39	3.42	8.10	2.79	2.91	7.59	2.76	2.75	6.52	2.80	2.33	3.71	2.78	1.33
	min	3.13	0.53	5.89	3.31	0.67	4.93	3.26	0.70	4.64	4.49	1.15	3.90	4.38	1.25	3.51	4.83	1.62	2.99	4.87	1.72	2.82	4.65	1.94	2.40	2.76	2.04	1.35
7	max	10.08	1.77	5.68	9.89	1.97	5.01	9.79	2.07	4.73	10.13	2.53	4.01	9.79	2.70	3.62	9.34	3.08	3.03	9.20	3.14	2.94	7.82	2.99	2.62	4.66	3.14	1.48
	norm	9.79	1.69	5.78	9.58	1.85	5.17	9.50	1.98	4.80	9.75	2.39	4.07	9.50	2.60	3.65	9.10	2.95	3.09	9.00	3.00	3.00	7.32	2.75	2.66	4.12	2.69	1.53
	min	3.61	0.58	6.21	3.71	0.68	5.44	3.62	0.70	5.15	4.75	1.10	4.31	5.27	1.35	3.92	5.80	1.78	3.26	5.84	1.86	3.14	5.14	1.87	2.75	3.06	1.98	1.55
10	max	10.75	1.59	6.75	9.98	1.85	5.39	9.50	1.94	4.90	9.59	2.40	3.99	9.38	2.66	3.52	9.11	2.94	3.10	9.06	3.05	2.97	7.86	3.07	2.56	6.18	3.08	2.01
	norm	9.70	1.34	7.22	8.76	1.54	5.67	8.41	1.66	5.06	8.57	2.06	4.16	8.49	2.38	3.57	8.42	2.65	3.18	7.90	2.60	3.04	7.22	2.77	2.61	5.43	2.65	2.05
	min	3.29	0.44	7.47	2.93	0.49	5.96	3.01	0.56	5.34	4.31	0.99	4.36	5.07	1.37	3.71	5.49	1.66	3.32	5.72	1.81	3.15	5.26	1.94	2.71	4.20	2.00	2.10
15	max	10.94	1.41	7.75	10.18	1.64	6.19	9.69	1.71	5.66	9.75	2.13	4.57	9.60	2.37	4.06	9.29	2.61	3.57	9.24	2.70	3.42	8.01	2.73	2.94	6.30	2.74	2.30
	norm	9.89	1.18	8.36	9.02	1.35	6.67	8.67	1.46	5.96	8.84	1.81	4.89	8.76	2.08	4.21	8.68	2.31	3.75	8.14	2.29	3.55	7.45	2.44	3.05	5.73	2.41	2.37
	min	4.30	0.48	8.94	4.00	0.57	7.01	3.80	0.60	6.29	4.53	0.88	5.15	5.30	1.20	4.43	5.73	1.45	3.94	6.66	1.79	3.71	5.85	1.90	3.08	4.22	1.73	2.45
20	max	10.37	1.19	8.70	10.37	1.35	7.66	10.17	1.57	6.46	10.33	1.91	5.41	9.79	2.10	4.66	9.50	2.40	3.95	9.33	2.49	3.75	8.46	2.59	3.27	/	/	/
	norm	9.48	0.99	9.56	9.20	1.11	8.27	9.10	1.33	6.86	9.36	1.62	5.79	8.99	1.84	4.88	8.94	2.13	4.19	8.27	2.12	3.91	7.89	2.40	3.28	/	/	/
	min	4.67	0.46	10.12	5.06	0.58	8.71	5.38	0.74	7.24	6.49	1.06	6.12	6.06	1.18	5.14	6.18	1.40	4.41	6.25	1.52	4.11	5.66	1.64	3.46	/	/	/
25	max	9.54	1.04	9.16	9.50	1.17	8.11	9.33	1.37	6.83	9.48	1.66	5.72	8.99	1.82	4.93	8.76	2.09	4.19	8.58	2.16	3.98	7.77	2.24	3.47	/	/	/
	norm	8.51	0.83	10.23	8.62	0.98	8.78	8.54	1.17	7.31	8.78	1.41	6.21	8.43	1.61	5.22	8.38	1.87	4.48	7.76	1.85	4.19	7.40	2.11	3.51	/	/	/
	min	5.25	0.49	10.70	5.61	0.60	9.33	5.88	0.76	7.71	6.92	1.05	6.59	6.47	1.18	5.49	6.57	1.39	4.72	6.16	1.40	4.40	5.67	1.54	3.69	/	/	/
30	max	9.38	0.96	9.75	8.71	1.10	7.90	8.46	1.11	7.63	8.54	1.33	6.41	9.42	1.59	5.91	8.84	1.90	4.66	8.56	1.84	4.65	7.12	1.98	3.59	/	/	/
	norm	8.41	0.77	10.90	7.95	0.86	9.22	7.78	0.95	8.19	7.95	1.14	6.97	8.88	1.42	6.27	8.51	1.70	5.02	7.77	1.58	4.93	6.81	1.86	3.67	/	/	/

	min	5.40	0.47	11.46	5.36	0.55	9.72	5.54	0.63	8.74	5.85	0.79	7.42	6.93	1.05	6.60	6.86	1.30	5.26	6.35	1.23	5.15	5.37	1.39	3.85	/	/	/	
35	max	9.79	0.95	10.29	9.06	1.03	8.78	8.79	1.10	8.00	8.89	1.33	6.67	9.79	1.59	6.14	9.21	1.89	4.87	8.92	1.86	4.79	/	/	/	/	/	/	/
	norm	8.82	0.76	11.59	8.34	0.86	9.68	8.16	0.94	8.68	8.35	1.14	7.31	9.32	1.42	6.58	8.92	1.70	5.26	8.17	1.60	5.12	/	/	/	/	/	/	/
	min	6.54	0.53	12.31	6.16	0.60	10.25	5.77	0.63	9.10	6.13	0.79	7.78	7.26	1.05	6.92	7.36	1.33	5.52	6.95	1.29	5.37	/	/	/	/	/	/	/
40	max	10.27	0.93	11.02	9.51	1.01	9.40	9.22	1.14	8.10	9.33	1.33	7.00	10.26	1.58	6.48	9.69	1.86	5.21	/	/	/	/	/	/	/	/	/	/
	norm	9.40	0.75	12.51	8.61	0.82	10.48	8.31	0.94	8.84	8.51	1.10	7.73	9.50	1.36	7.00	9.11	1.61	5.67	/	/	/	/	/	/	/	/	/	/
	min	6.97	0.53	13.12	6.37	0.58	10.97	6.56	0.69	9.46	6.72	0.82	8.21	7.83	1.06	7.39	7.83	1.31	5.96	/	/	/	/	/	/	/	/	/	/
43	max	10.56	0.91	11.58	9.79	0.96	10.18	9.50	1.07	8.89	9.61	1.24	7.74	10.64	1.46	7.31	9.98	1.70	5.88	/	/	/	/	/	/	/	/	/	/
	norm	9.79	0.74	13.21	8.95	0.79	11.30	8.65	0.88	9.81	8.84	1.03	8.58	9.88	1.26	7.86	9.46	1.46	6.46	/	/	/	/	/	/	/	/	/	/
	min	7.29	0.52	13.98	6.66	0.55	12.09	6.84	0.66	10.31	7.02	0.77	9.14	8.27	1.00	8.28	8.27	1.22	6.76	/	/	/	/	/	/	/	/	/	/

Abbreviazioni:

LWT: Temperatura dell'acqua in uscita (°C)

DB: Temperatura a bulbo secco per la temperatura dell'aria esterna (°C)

HC: Capacità di riscaldamento totale (kW)

PI: Potenza in ingresso (kW)

Tabella 2-5.3: Capacità di riscaldamento per THMLd-12D(S)/HBp-A

Massimo																													
DB	LWT																												
	25			30			35			40			45			50			55			60			65				
	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI
-25	6.00	2.78	2.16	6.23	2.91	2.14	5.00	2.96	1.69	4.51	3.12	1.44	4.21	3.29	1.28	/	/	/	/	/	/	/	/	/	/	/	/	/	
-20	7.61	3.00	2.54	7.65	3.08	2.48	7.17	3.34	2.15	6.35	3.41	1.86	6.02	3.52	1.71	5.33	3.55	1.50	5.05	3.63	1.39	/	/	/	/	/	/	/	
-15	8.86	3.12	2.84	8.82	3.34	2.64	8.82	3.62	2.44	7.89	3.62	2.18	7.35	3.95	1.86	6.68	3.97	1.68	6.30	4.31	1.46	5.84	4.69	1.25	/	/	/	/	
-10	10.95	3.47	3.15	10.05	3.68	2.73	9.95	3.95	2.52	9.64	4.34	2.22	9.27	4.54	2.04	8.92	4.62	1.93	8.56	4.79	1.79	6.67	5.13	1.30	/	/	/	/	
-7	12.24	3.52	3.48	10.85	3.62	3.00	10.95	3.89	2.81	10.35	4.27	2.42	10.35	4.50	2.30	10.55	4.74	2.23	10.55	5.25	2.01	8.01	5.06	1.58	/	/	/	/	
-5	12.34	3.33	3.71	11.14	3.55	3.14	11.24	3.87	2.91	10.85	4.26	2.55	10.85	4.61	2.35	10.75	4.75	2.26	10.55	5.14	2.05	8.17	5.14	1.59	/	/	/	/	
0	12.34	2.87	4.30	11.84	3.13	3.78	11.94	3.44	3.47	12.24	4.04	3.03	12.24	4.37	2.80	11.04	4.61	2.40	10.75	4.74	2.27	8.48	5.03	1.69	/	/	/	/	
5	14.53	2.66	5.46	13.43	2.97	4.52	13.53	3.28	4.13	13.73	3.70	3.71	13.53	4.18	3.24	12.74	4.46	2.86	12.74	4.70	2.71	11.54	5.06	2.28	9.87	5.16	1.91	/	
7	15.42	2.57	6.00	14.13	2.83	4.99	14.53	3.11	4.67	14.73	3.57	4.12	14.43	4.00	3.61	13.83	4.43	3.12	13.83	4.66	2.97	12.94	5.07	2.55	11.44	5.17	2.21	/	
10	14.93	2.40	6.22	14.33	2.62	5.47	14.23	2.83	5.03	14.53	3.34	4.35	14.23	3.89	3.66	13.43	4.11	3.27	13.03	4.38	2.98	12.64	4.79	2.64	11.64	4.89	2.38	/	
15	15.02	1.97	7.63	14.63	2.21	6.62	14.33	2.65	5.41	14.93	3.17	4.71	14.53	3.53	4.12	13.33	3.73	3.57	12.04	3.97	3.03	12.24	4.32	2.83	11.64	4.42	2.63	/	
20	14.53	1.66	8.75	14.23	1.88	7.57	14.13	2.20	6.42	14.73	2.75	5.35	14.73	3.15	4.67	13.63	3.37	4.04	11.94	3.55	3.36	10.75	3.71	2.90	/	/	/	/	
25	14.33	1.55	9.24	14.23	1.73	8.22	14.13	1.93	7.32	14.63	2.35	6.22	14.63	2.73	5.36	13.83	3.00	4.61	11.94	3.12	3.83	9.95	3.36	2.96	/	/	/	/	
30	14.53	1.45	10.02	14.13	1.62	8.72	14.33	1.85	7.74	14.63	2.22	6.59	14.63	2.63	5.56	13.93	2.82	4.94	12.54	2.94	4.26	10.25	3.4	3.01	/	/	/	/	
35	15.12	1.39	10.88	14.83	1.60	9.27	14.63	1.80	8.13	15.02	2.17	6.92	14.53	2.50	5.81	14.13	2.72	5.19	12.84	2.79	4.60	/	/	/	/	/	/	/	
40	15.62	1.41	11.08	15.52	1.59	9.76	15.32	1.79	8.56	15.92	2.17	7.34	15.22	2.44	6.24	14.43	2.69	5.36	/	/	/	/	/	/	/	/	/	/	
43	16.12	1.35	11.94	15.92	1.50	10.61	15.82	1.73	9.14	16.42	2.11	7.78	15.92	2.35	6.77	14.73	2.57	5.73	/	/	/	/	/	/	/	/	/	/	
Normale																													
DB	LWT																												
	25			30			35			40			45			50			55			60			65				
	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI
-25	5.13	2.24	2.29	5.29	2.32	2.28	4.22	2.37	1.78	3.86	2.57	1.50	3.64	2.82	1.29	/	/	/	/	/	/	/	/	/	/	/	/	/	
-20	6.70	2.45	2.73	6.70	2.49	2.69	6.22	2.72	2.29	5.59	2.85	1.96	5.28	3.01	1.76	4.70	3.03	1.55	4.61	3.30	1.40	/	/	/	/	/	/	/	
-15	7.39	2.41	3.07	7.31	2.55	2.87	7.24	2.78	2.61	6.60	2.86	2.31	6.01	3.13	1.92	5.48	3.14	1.75	5.27	3.58	1.47	4.94	4.01	1.23	/	/	/	/	
-10	9.01	2.69	3.35	8.22	2.83	2.90	8.10	3.06	2.65	7.96	3.45	2.31	7.76	3.70	2.10	7.50	3.77	1.99	7.20	3.91	1.84	5.67	4.30	1.32	/	/	/	/	
-7	11.04	3.11	3.55	10.25	3.26	3.14	9.95	3.33	2.99	10.05	4.06	2.48	10.15	4.25	2.39	10.25	4.48	2.29	9.75	4.78	2.04	7.19	4.42	1.63	/	/	/	/	
-5	10.25	2.55	4.02	9.17	2.72	3.37	9.00	2.89	3.12	8.83	3.19	2.77	8.74	3.48	2.51	8.43	3.59	2.35	8.32	3.91	2.13	6.71	4.10	1.64	/	/	/	/	
0	9.88	2.09	4.73	9.30	2.29	4.06	9.14	2.46	3.72	9.46	2.88	3.29	9.38	3.14	2.99	8.09	3.22	2.51	7.89	3.38	2.33	6.67	3.83	1.74	/	/	/	/	
5	11.74	1.95	6.02	10.75	2.18	4.93	10.55	2.35	4.49	10.75	2.65	4.06	10.55	3.01	3.50	9.70	3.22	3.01	9.78	3.42	2.86	9.16	3.86	2.37	8.15	4.05	2.01	/	
7	12.84	1.96	6.55	11.84	2.19	5.41	12.04	2.44	4.93	12.34	2.75	4.49	12.24	3.32	3.69	12.14	3.75	3.24	11.84	3.90	3.04	10.75	4.06	2.65	9.59	4.10	2.34	/	
10	11.74	1.72	6.83	11.14	1.87	5.96	10.85	1.97	5.51	11.24	2.34	4.80	10.85	2.74	3.96	10.05	2.93	3.43	9.81	3.16	3.10	9.87	3.62	2.73	9.43	3.80	2.48	/	
15	11.94	1.41	8.47	11.54	1.58	7.31	10.95	1.84	5.95	11.54	2.21	5.22	11.14	2.48	4.49	10.05	2.66	3.78	9.07	2.85	3.18	9.61	3.26	2.95	9.52	3.39	2.81	/	
20	11.44	1.16	9.86	11.04	1.32	8.37	10.75	1.50	7.16	11.34	1.89	6.00	11.14	2.17	5.14	10.05	2.35	4.28	8.96	2.50	3.58	8.33	2.74	3.04	/	/	/	/	
25	11.34	1.09	10.41	11.14	1.22	9.13	10.75	1.33	8.08	11.34	1.46	7.77	11.14	1.89	5.90	10.35	2.11	4.90	8.99	2.21	4.07	7.81	2.50	3.12	/	/	/	/	
30	11.64	1.04	11.19	11.14	1.16	9.61	10.95	1.29	8.48	11.44	1.41	8.12	11.34	1.93	5.88	10.45	2.01	5.20	9.57	2.14	4.47	8.13	2.58	3.15	/	/	/	/	
35	12.34	1.02	12.10	11.94	1.17	10.21	11.44	1.32	8.67	11.94	1.60	7.46	11.44	1.86	6.15	10.95	1.96	5.58	9.95	2.06	4.83	/	/	/	/	/	/	/	
40	13.03	1.06	12.30	12.84	1.19	10.79	12.44	1.33	9.35	12.94	1.63	7.94	12.34	1.84	6.71	11.44	1.98	5.78	/	/	/	/	/	/	/	/	/	/	
43	13.63	1.02	13.36	13.33	1.14	11.70	12.94	1.30	9.95	13.63	1.60	8.52	13.03	1.80	7.24	11.84	1.91	6.20	/	/	/	/	/	/	/	/	/	/	
Minimo																													

DB	LWT																										
	25			30			35			40			45			50			55			60			65		
	HC	PI	COP	PI	COP	HC	PI	COP																			
-25	3.42	1.46	2.34	3.70	1.59	2.33	3.25	1.81	1.80	3.06	2.01	1.52	2.82	2.17	1.30	/	/	/	/	/	/	/	/	/	/	/	
-20	4.22	1.52	2.78	4.40	1.61	2.73	4.06	1.75	2.32	3.70	1.86	1.99	3.91	2.25	1.74	3.73	2.43	1.54	3.58	2.58	1.39	/	/	/	/	/	
-15	4.83	1.54	3.13	4.98	1.70	2.93	4.90	1.83	2.68	4.53	1.92	2.36	4.71	2.45	1.92	4.61	2.64	1.75	4.41	2.98	1.48	4.20	3.39	1.24	/	/	
-10	4.65	1.34	3.47	4.46	1.48	3.01	4.34	1.59	2.73	4.37	1.84	2.37	4.83	2.25	2.14	5.08	2.50	2.03	5.30	2.83	1.87	4.47	3.32	1.35	/	/	
-7	4.59	1.17	3.92	3.83	1.15	3.33	3.95	1.26	3.14	4.18	1.53	2.73	5.38	2.14	2.52	5.70	2.41	2.37	6.00	2.79	2.15	5.20	3.11	1.67	/	/	
-5	4.73	1.13	4.18	4.04	1.15	3.51	4.16	1.28	3.25	4.50	1.56	2.88	5.77	2.23	2.59	5.90	2.44	2.42	6.09	2.79	2.18	5.39	3.20	1.69	/	/	
0	4.97	1.01	4.92	4.62	1.08	4.27	4.60	1.18	3.90	5.21	1.52	3.43	6.67	2.15	3.10	6.09	2.49	2.45	6.20	2.69	2.30	5.72	3.18	1.80	/	/	
5	5.88	0.93	6.32	5.31	1.03	5.16	5.28	1.12	4.72	5.94	1.39	4.27	7.45	2.05	3.64	7.26	2.32	3.13	8.04	2.71	2.97	7.83	3.18	2.46	6.96	3.33	
7	6.12	0.88	6.95	5.50	0.96	5.73	5.55	1.04	5.34	6.27	1.31	4.79	7.84	1.92	4.08	7.79	2.26	3.45	8.59	2.64	3.25	8.67	3.13	2.77	8.02	3.28	
10	6.07	0.84	7.23	5.69	0.91	6.25	5.59	0.97	5.76	6.34	1.26	5.03	7.88	1.90	4.15	7.72	2.13	3.62	8.26	2.54	3.25	8.64	3.03	2.85	8.24	3.17	
15	5.90	0.66	8.94	5.75	0.75	7.67	5.59	0.90	6.21	6.89	1.26	5.46	8.05	1.72	4.68	8.24	2.08	3.96	7.79	2.35	3.32	8.69	2.83	3.07	8.58	2.95	
20	5.78	0.56	10.32	5.70	0.65	8.77	5.63	0.75	7.51	6.94	1.10	6.30	8.23	1.54	5.34	8.48	1.88	4.51	7.86	2.11	3.73	7.68	2.43	3.16	/	/	
25	5.86	0.54	10.85	5.82	0.61	9.54	5.76	0.68	8.47	7.02	0.96	7.32	8.35	1.36	6.14	8.77	1.70	5.16	7.96	1.88	4.23	7.25	2.23	3.25	/	/	
30	6.80	0.58	11.72	6.93	0.69	10.04	7.78	0.89	8.74	8.19	1.09	7.51	8.48	1.38	6.14	8.91	1.62	5.50	8.56	1.82	4.70	7.30	2.20	3.32	/	/	
35	7.19	0.56	12.85	7.39	0.69	10.71	8.13	0.88	9.24	8.56	1.08	7.92	8.54	1.32	6.47	9.22	1.58	5.84	8.86	1.74	5.09	/	/	/	/	/	
40	7.59	0.58	13.09	7.91	0.69	11.46	8.71	0.88	9.89	9.04	1.07	8.45	9.00	1.28	7.03	9.55	1.57	6.08	/	/	/	/	/	/	/	/	
43	8.06	0.57	14.14	8.33	0.67	12.43	9.17	0.87	10.54	9.59	1.06	9.05	9.70	1.27	7.64	9.95	1.53	6.50	/	/	/	/	/	/	/	/	

Abbreviazioni:

LWT: Temperatura dell'acqua in uscita (°C)

DB: Temperatura a bulbo secco per la temperatura dell'aria esterna (°C)

HC: Capacità di riscaldamento totale (kW)

PI: Potenza in ingresso (kW)

Tabella 2-5.4: Capacità di riscaldamento per THMLd-14D(S)/HBp-A

Massimo																											
DB	LWT																										
	25			30			35			40			45			50			55			60			65		
	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP												
-25	6.57	3.09	2.13	6.73	3.20	2.10	5.40	3.18	1.70	4.87	3.35	1.45	4.45	3.47	1.28	/	/	/	/	/	/	/	/	/	/	/	
-20	8.22	3.22	2.55	8.26	3.30	2.50	7.75	3.58	2.17	6.86	3.65	1.88	6.22	3.61	1.72	5.39	3.61	1.49	5.11	3.87	1.32	/	/	/	/	/	
-15	9.56	3.40	2.81	9.52	3.65	2.61	9.52	3.94	2.42	8.53	3.95	2.16	7.59	4.12	1.84	6.97	4.32	1.61	6.43	4.58	1.40	5.98	5.05	1.18	/	/	
-10	11.84	3.81	3.11	11.34	4.18	2.71	10.95	4.44	2.47	10.55	4.70	2.24	9.59	4.73	2.03	9.02	5.01	1.80	8.68	5.21	1.67	6.70	5.30	1.26	/	/	
-7	13.63	4.02	3.39	12.84	4.28	3.00	12.64	4.55	2.78	12.24	4.94	2.48	11.84	5.17	2.29	10.95	5.33	2.05	11.24	5.46	2.06	7.98	5.31	1.50	/	/	
-5	13.83	3.78	3.66	13.13	3.87	3.39	12.44	4.16	2.99	12.54	4.61	2.72	12.04	4.99	2.41	11.14	5.24	2.13	11.04	5.32	2.08	8.21	5.06	1.62	/	/	
0	14.23	3.40	4.18	13.63	3.54	3.85	12.34	3.82	3.23	12.94	4.32	2.99	12.64	4.85	2.61	11.84	4.99	2.37	11.74	5.19	2.26	9.29	5.48	1.70	/	/	
5	15.32	2.93	5.23	14.83	3.30	4.49	14.23	3.63	3.92	14.23	3.95	3.60	14.23	4.59	3.10	13.73	4.98	2.76	13.73	5.18	2.65	11.64	5.38	2.16	9.71	5.33	
7	16.22	2.81	5.77	15.52	3.15	4.93	15.42	3.37	4.58	15.52	3.86	4.02	15.62	4.35	3.59	14.93	4.81	3.10	14.43	4.92	2.93	13.13	5.20	2.53	10.35	4.95	
10	15.42	2.28	6.76	15.42	2.89	5.34	14.83	3.10	4.78	15.22	3.60	4.23	14.93	4.08	3.66	15.22	4.62	3.30	14.13	4.60	3.07	13.13	4.91	2.67	11.14	4.98	
15	15.22	2.01	7.57	15.12	2.62	5.77	15.12	2.94	5.14	15.72	3.56	4.42	15.42	3.98	3.88	15.22	4.37	3.48	12.94	4.02	3.22	12.64	4.48	2.82	11.84	4.97	
20	14.83	1.78	8.33	14.73	2.20	6.69	14.53	2.59	5.61	15.12	3.04	4.98	15.02	3.42	4.39	14.93	3.84	3.89	12.64	3.62	3.49	10.95	3.77	2.90	/	/	
25	14.83	1.64	9.04	14.63	1.92	7.62	14.53	2.38	6.10	14.83	2.68	5.53	14.63	2.98	4.91	14.63	3.43	4.26	12.44	3.28	3.79	10.15	3.40	2.99	/	/	

30	15.22	1.55	9.82	14.73	1.80	8.18	14.83	2.10	7.06	15.02	2.42	6.21	14.93	2.80	5.33	14.53	3.14	4.63	12.74	2.93	4.35	10.25	3.40	3.01	/	/	/
35	15.92	1.45	10.98	15.32	1.70	9.01	14.93	1.87	7.98	15.42	2.26	6.82	15.22	2.65	5.74	14.73	2.95	4.99	12.94	2.77	4.67	/	/	/	/	/	/
40	16.12	1.40	11.51	16.32	1.59	10.26	16.12	1.89	8.53	15.92	2.20	7.24	15.72	2.59	6.07	14.93	2.78	5.37	/	/	/	/	/	/	/	/	/
43	16.42	1.36	12.07	16.62	1.54	10.79	16.42	1.88	8.73	16.22	2.12	7.65	16.02	2.56	6.26	15.12	2.73	5.54	/	/	/	/	/	/	/	/	/

Normale

DB	LWT																										
	25			30			35			40			45			50			55			60			65		
	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP
-25	5.62	2.48	2.27	5.72	2.55	2.24	4.55	2.55	1.78	4.17	2.76	1.51	3.86	2.97	1.30	/	/	/	/	/	/	/	/	/	/	/	/
-20	7.23	2.63	2.75	7.23	2.67	2.71	6.72	2.92	2.30	6.04	3.06	1.97	5.45	3.08	1.77	4.75	3.08	1.54	4.67	3.52	1.33	/	/	/	/	/	/
-15	7.99	2.63	3.04	7.90	2.79	2.83	7.82	3.03	2.58	7.12	3.12	2.28	6.21	3.26	1.90	5.73	3.42	1.68	5.38	3.81	1.41	5.06	4.31	1.18	/	/	/
-10	9.75	2.96	3.29	9.31	3.22	2.89	8.85	3.43	2.58	8.72	3.74	2.33	8.03	3.85	2.09	7.59	4.08	1.86	7.30	4.26	1.71	5.70	4.44	1.28	/	/	/
-7	12.64	3.56	3.55	12.14	3.94	3.08	11.94	4.21	2.84	11.84	4.46	2.65	11.74	5.02	2.34	10.85	5.15	2.11	10.95	5.37	2.04	7.37	4.77	1.55	/	/	/
-5	11.54	2.89	3.99	10.75	2.96	3.63	9.93	3.11	3.19	10.15	3.45	2.94	9.63	3.77	2.55	8.74	3.96	2.21	8.79	4.05	2.17	6.74	4.04	1.67	/	/	/
0	11.34	2.48	4.57	10.75	2.58	4.17	9.47	2.72	3.48	10.05	3.08	3.26	9.69	3.48	2.78	8.74	3.62	2.41	8.74	3.70	2.36	7.14	4.08	1.75	/	/	/
5	12.34	2.15	5.74	11.84	2.42	4.89	11.04	2.60	4.25	11.14	2.83	3.94	11.04	3.31	3.34	10.45	3.60	2.90	10.55	3.77	2.80	9.26	4.11	2.25	8.02	4.19	1.91
7	15.12	2.43	6.22	14.43	2.77	5.21	14.43	3.15	4.58	14.53	3.52	4.13	14.03	3.92	3.58	13.93	4.40	3.17	13.73	4.68	2.93	12.24	4.73	2.59	9.66	4.50	2.15
10	12.24	1.63	7.51	12.04	2.07	5.82	11.24	2.17	5.18	11.74	2.52	4.66	11.34	2.87	3.95	11.34	3.30	3.44	10.55	3.31	3.19	10.25	3.71	2.76	9.06	3.88	2.34
15	12.14	1.43	8.49	11.84	1.87	6.33	11.54	2.05	5.63	12.24	2.49	4.92	11.84	2.80	4.23	11.44	3.11	3.68	9.79	2.88	3.40	9.95	3.38	2.94	9.63	3.78	2.55
20	11.64	1.25	9.31	11.44	1.54	7.43	11.04	1.77	6.24	11.64	2.08	5.60	11.44	2.35	4.87	11.04	2.68	4.12	9.48	2.55	3.72	8.50	2.78	3.06	/	/	/
25	11.74	1.15	10.21	11.54	1.35	8.55	11.04	1.63	6.78	11.44	1.66	6.89	11.24	2.06	5.46	10.95	2.41	4.54	9.35	2.32	4.03	7.91	2.53	3.13	/	/	/
30	12.14	1.11	10.94	11.64	1.29	9.02	11.34	1.46	7.77	11.64	1.54	7.56	11.54	2.05	5.63	10.95	2.24	4.89	9.69	2.13	4.55	8.13	2.58	3.15	/	/	/
35	12.94	1.06	12.20	12.34	1.25	9.87	11.74	1.36	8.63	12.24	1.67	7.33	11.94	1.96	6.09	11.34	2.13	5.33	10.05	2.05	4.90	/	/	/	/	/	/
40	13.43	1.04	12.92	13.53	1.19	11.37	13.03	1.41	9.24	12.94	1.65	7.84	12.64	1.96	6.45	11.74	2.04	5.76	/	/	/	/	/	/	/	/	/
43	14.03	1.02	13.75	14.03	1.17	11.99	13.53	1.41	9.60	13.43	1.61	8.34	13.13	1.96	6.70	12.14	2.04	5.95	/	/	/	/	/	/	/	/	/

Minimo

DB	LWT																										
	25			25			25			25			25			25			25			25			25		
	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP
-25	3.74	1.62	2.31	4.00	1.74	2.30	3.52	1.94	1.82	3.31	2.17	1.53	2.99	2.29	1.30	/	/	/	/	/	/	/	/	/	/	/	/
-20	4.56	1.63	2.80	4.75	1.73	2.74	4.38	1.87	2.34	4.00	1.99	2.01	4.04	2.31	1.75	3.77	2.47	1.53	3.63	2.76	1.32	/	/	/	/	/	/
-15	5.21	1.68	3.10	5.37	1.85	2.90	5.28	2.00	2.64	4.89	2.09	2.34	4.86	2.56	1.90	4.82	2.87	1.68	4.50	3.17	1.42	4.31	3.65	1.18	/	/	/
-10	5.02	1.47	3.42	5.05	1.68	3.01	4.74	1.79	2.65	4.78	1.99	2.40	4.98	2.35	2.12	5.14	2.71	1.90	5.37	3.08	1.74	4.49	3.43	1.31	/	/	/
-7	5.11	1.34	3.82	4.53	1.35	3.35	4.55	1.48	3.07	4.94	1.77	2.79	6.18	2.46	2.51	5.93	2.71	2.19	6.22	2.90	2.14	5.19	3.26	1.59	/	/	/
-5	5.32	1.28	4.16	4.76	1.25	3.80	4.59	1.38	3.32	5.16	1.69	3.06	6.37	2.41	2.64	6.12	2.69	2.27	6.43	2.88	2.23	5.41	3.15	1.72	/	/	/
0	5.70	1.19	4.79	5.31	1.22	4.36	4.77	1.31	3.64	5.54	1.63	3.40	6.89	2.39	2.88	6.58	2.67	2.46	6.87	2.81	2.44	6.14	3.39	1.81	/	/	/
5	6.20	1.03	6.02	5.86	1.14	5.14	5.55	1.24	4.48	6.15	1.49	4.13	7.82	2.25	3.48	7.82	2.59	3.02	8.64	2.98	2.90	7.91	3.38	2.34	6.85	3.44	1.99
7	6.45	0.96	6.72	6.00	1.06	5.66	5.89	1.12	5.26	6.61	1.42	4.65	8.46	2.09	4.05	8.39	2.46	3.41	9.00	2.78	3.24	8.84	3.21	2.75	7.21	3.14	2.30
10	6.31	0.80	7.89	6.15	1.00	6.15	5.81	1.06	5.48	6.63	1.35	4.91	8.24	2.00	4.12	8.73	2.40	3.64	8.92	2.67	3.34	8.97	3.10	2.90	7.91	3.23	2.45
15	5.98	0.67	8.93	5.94	0.89	6.67	5.90	1.00	5.90	7.29	1.42	5.14	8.55	1.94	4.41	9.42	2.43	3.88	8.41	2.38	3.53	8.99	2.93	3.07	8.68	3.29	2.64
20	5.92	0.60	9.87	5.90	0.76	7.76	5.80	0.89	6.52	7.12	1.22	5.84	8.44	1.68	5.02	9.30	2.14	4.35	8.32	2.15	3.87	7.84	2.47	3.17	/	/	/
25	6.06	0.57	10.63	6.02	0.68	8.85	5.93	0.83	7.14	7.13	1.10	6.49	8.38	1.48	5.66	9.28	1.94	4.79	8.28	1.98	4.18	7.34	2.26	3.25	/	/	/
30	7.07	0.62	11.41	7.22	0.76	9.50	8.06	1.01	7.98	8.39	1.20	6.99	8.64	1.46	5.92	9.32	1.81	5.15	8.66	1.81	4.78	7.30	2.20	3.32	/	/	/
35	7.59	0.59	12.87	7.65	0.73	10.48	8.28	0.91	9.10	8.79	1.13	7.78	8.94	1.40	6.38	9.58	1.72	5.57	8.93	1.73	5.16	/	/	/	/	/	/
40	7.85	0.57	13.77	8.33	0.69	12.07	9.11	0.93	9.80	9.05	1.09	8.31	9.24	1.36	6.80	9.84	1.63	6.04	/	/	/	/	/	/	/	/	/
43	8.26	0.57	14.49	8.75	0.69	12.68	9.54	0.94	10.15	9.48	1.07	8.86	9.19	1.31	7.02	10.25	1.63	6.29	/	/	/	/	/	/	/	/	/

Abbreviazioni:

LWT: Temperatura dell'acqua in uscita (°C)

DB: Temperatura a bulbo secco perla temperatura dell'aria esterna (°C)

HC: Capacità di riscaldamento totale (kW)

PI: Potenza in ingresso (kW)

Tabella 2-5.5: Capacità di riscaldamento per THMLd-16D(S)/HBp-A

Massimo																											
DB	LWT																										
	25			30			35			40			45			50			55			60			65		
	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP
-25	7.65	4.03	1.90	7.95	4.22	1.88	6.58	4.01	1.64	5.86	4.43	1.32	4.94	4.21	1.17	/	/	/	/	/	/	/	/	/	/	/	
-20	9.52	3.94	2.42	9.66	4.43	2.18	8.12	4.77	1.70	7.44	4.76	1.56	6.52	4.85	1.34	5.82	4.54	1.28	5.34	4.75	1.12	/	/	/	/	/	
-15	11.74	4.37	2.69	11.24	4.60	2.44	10.65	4.93	2.16	10.05	5.24	1.92	8.98	5.38	1.67	7.49	5.32	1.41	6.79	5.29	1.28	6.39	5.59	1.14	/	/	
-10	13.33	4.51	2.96	12.94	4.78	2.71	12.64	5.09	2.48	12.34	5.43	2.27	11.04	5.61	1.97	9.44	5.56	1.70	8.88	5.88	1.51	7.00	5.59	1.25	/	/	
-7	14.23	4.59	3.10	14.03	4.89	2.87	13.83	5.19	2.66	13.73	5.55	2.47	13.03	6.02	2.17	12.84	6.22	2.06	12.54	6.29	1.99	8.21	6.18	1.33	/	/	
-5	14.53	4.27	3.40	14.23	4.61	3.09	13.93	4.93	2.83	13.73	5.33	2.58	13.33	5.88	2.27	12.94	5.82	2.22	12.54	5.92	2.12	8.58	5.97	1.44	/	/	
0	15.02	3.49	4.31	14.63	3.91	3.74	14.23	4.27	3.33	13.83	4.80	2.88	14.03	5.33	2.63	13.33	5.14	2.59	12.74	5.42	2.35	9.51	5.54	1.72	/	/	
5	16.72	3.25	5.14	14.53	3.61	4.02	16.02	4.00	4.00	15.52	4.57	3.40	15.82	4.96	3.19	15.22	5.05	3.01	14.43	5.21	2.77	12.64	5.36	2.36	10.65	5.24	2.03
7	17.41	3.16	5.51	15.62	3.12	5.01	16.72	3.79	4.41	16.32	4.25	3.84	16.52	4.71	3.51	16.12	5.05	3.19	16.12	5.53	2.91	14.03	5.34	2.63	11.24	5.13	2.19
10	17.91	3.01	5.95	16.32	3.34	4.89	17.51	3.73	4.69	17.01	4.33	3.93	17.21	4.72	3.65	16.62	5.12	3.25	16.02	5.16	3.10	14.23	5.15	2.76	12.14	4.97	2.44
15	18.81	2.76	6.81	19.20	3.08	6.23	18.81	3.48	5.40	18.21	4.08	4.46	18.41	4.53	4.06	17.71	4.79	3.70	17.41	5.11	3.41	14.63	4.83	3.03	12.44	4.80	2.59
20	16.62	2.08	7.99	16.82	2.38	7.07	16.62	2.69	6.18	17.31	3.40	5.09	16.02	3.77	4.25	14.53	4.06	3.58	14.93	4.32	3.45	13.03	4.39	2.97	/	/	/
25	16.12	1.83	8.81	16.12	2.23	7.23	15.92	2.31	6.89	16.52	2.87	5.76	15.62	3.23	4.84	14.43	3.46	4.17	14.03	3.68	3.81	12.34	4.05	3.05	/	/	/
30	15.52	1.55	10.01	15.42	1.88	8.20	15.32	2.00	7.66	15.82	2.45	6.46	15.22	2.81	5.42	14.33	3.01	4.76	13.13	3.15	4.17	12.64	4.11	3.07	/	/	/
35	16.22	1.50	10.81	16.52	1.84	8.98	16.22	1.94	8.36	16.52	2.42	6.83	15.82	2.79	5.67	14.93	3.00	4.98	13.33	3.07	4.34	/	/	/	/	/	/
40	16.82	1.47	11.44	17.51	1.75	10.01	17.11	1.88	9.10	17.31	2.40	7.21	16.32	2.78	5.87	15.52	2.98	5.21	/	/	/	/	/	/	/	/	/
43	17.11	1.46	11.72	17.91	1.71	10.47	17.51	1.88	9.31	17.61	2.39	7.37	16.62	2.70	6.15	15.82	2.94	5.38	/	/	/	/	/	/	/	/	/
Normale																											
DB	LWT																										
	25			30			35			40			45			50			55			60			65		
	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP
-25	6.54	3.24	2.02	6.76	3.29	2.05	5.54	3.21	1.73	5.01	3.65	1.37	4.28	3.60	1.19	/	/	/	/	/	/	/	/	/	/	/	/
-20	8.38	3.29	2.55	8.46	3.59	2.36	7.03	3.88	1.81	6.56	3.99	1.64	5.71	4.14	1.38	5.12	3.88	1.32	4.87	4.33	1.12	/	/	/	/	/	/
-15	9.84	3.37	2.92	9.30	3.52	2.64	8.76	3.79	2.31	8.37	4.14	2.02	7.34	4.26	1.72	6.15	4.21	1.46	5.68	4.40	1.29	5.40	4.77	1.13	/	/	/
-10	11.04	3.51	3.15	10.65	3.68	2.89	10.25	3.95	2.59	10.25	4.34	2.36	9.20	4.59	2.01	7.94	4.55	1.75	7.47	4.83	1.55	5.96	4.69	1.27	/	/	/
-7	13.83	4.27	3.24	13.43	4.44	3.03	13.03	4.85	2.69	13.03	4.98	2.62	12.74	5.69	2.24	12.34	5.83	2.12	12.44	6.25	1.99	7.65	5.60	1.37	/	/	/
-5	12.04	3.21	3.75	11.64	3.49	3.34	11.14	3.65	3.05	11.14	3.98	2.80	10.65	4.44	2.40	10.15	4.83	2.10	9.93	4.50	2.21	7.04	4.76	1.48	/	/	/
0	11.94	2.54	4.70	11.44	2.86	4.00	10.85	3.05	3.56	10.65	3.43	3.10	10.75	3.83	2.81	10.05	4.00	2.51	9.72	3.91	2.49	7.62	4.30	1.77	/	/	/
5	13.43	2.37	5.67	11.64	2.64	4.41	12.44	2.85	4.36	12.24	3.27	3.74	12.24	3.58	3.42	11.54	3.90	2.96	11.04	3.79	2.91	10.05	4.09	2.46	8.80	4.24	2.07
7	16.92	2.87	5.89	15.12	2.98	5.08	15.82	3.53	4.48	15.62	3.99	3.92	15.92	4.57	3.48	15.92	4.92	3.24	15.92	5.61	2.84	13.13	4.86	2.70	10.15	4.60	2.21
10	14.13	2.14	6.60	12.74	2.36	5.40	13.33	2.59	5.15	13.13	3.01	4.36	13.13	3.33	3.94	12.44	3.66	3.40	12.04	3.71	3.25	11.14	3.88	2.87	9.87	3.93	2.51
15	14.93	1.97	7.58	15.12	2.20	6.87	14.43	2.43	5.94	14.13	2.84	4.98	14.13	3.19	4.43	13.33	3.41	3.91	13.13	3.67	3.58	11.54	3.64	3.17	10.15	3.81	2.66
20	13.13	1.46	9.00	13.13	1.67	7.86	12.64	1.84	6.87	13.23	2.32	5.70	12.14	2.59	4.69	10.85	2.83	3.83	11.14	3.04	3.67	10.15	3.24	3.13	/	/	/
25	12.74	1.29	9.87	12.64	1.57	8.05	12.14	1.59	7.63	12.84	1.78	7.21	11.94	2.24	5.33	10.75	2.43	4.42	10.55	2.60	4.06	9.68	3.01	3.22	/	/	/

30	12.44	1.11	11.20	12.14	1.35	8.99	11.74	1.40	8.39	12.34	1.55	7.96	11.74	2.06	5.70	10.85	2.15	5.04	9.95	2.29	4.34	10.05	3.12	3.22	/	/	/
35	13.23	1.10	12.03	13.23	1.35	9.80	12.74	1.41	9.03	13.13	1.79	7.34	12.44	2.07	6.01	11.44	2.16	5.30	10.35	2.27	4.56	/	/	/	/	/	/
40	14.03	1.10	12.75	14.53	1.31	11.09	13.83	1.40	9.88	14.03	1.80	7.79	13.13	2.10	6.25	12.24	2.19	5.59	/	/	/	/	/	/	/	/	/
43	14.63	1.10	13.30	15.02	1.29	11.65	14.33	1.41	10.16	14.63	1.81	8.08	13.63	2.06	6.62	12.74	2.19	5.82	/	/	/	/	/	/	/	/	/
Minimo																											
DB	LWT																										
	25			25			25			25			25			25			25			25			25		
	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP	HC	PI	COP
-25	4.36	2.11	2.07	4.72	2.25	2.10	4.28	2.44	1.75	3.99	2.86	1.40	3.31	2.77	1.20	/	/	/	/	/	/	/	/	/	/	/	/
-20	5.28	2.04	2.59	5.55	2.33	2.38	4.59	2.50	1.83	4.34	2.60	1.67	4.23	3.10	1.36	4.08	3.11	1.31	3.79	3.38	1.12	/	/	/	/	/	/
-15	6.42	2.15	2.99	6.34	2.34	2.71	5.91	2.50	2.36	5.74	2.77	2.07	5.75	3.33	1.73	5.17	3.54	1.46	4.76	3.66	1.30	4.60	4.04	1.14	/	/	/
-10	5.67	1.74	3.26	5.77	1.93	2.99	5.49	2.06	2.67	5.60	2.31	2.43	5.72	2.80	2.04	5.38	3.03	1.78	5.50	3.49	1.58	4.69	3.62	1.29	/	/	/
-7	5.35	1.53	3.50	4.94	1.55	3.18	4.97	1.68	2.96	5.55	1.99	2.79	6.80	2.86	2.38	6.91	3.17	2.18	7.07	3.27	2.16	5.33	3.80	1.40	/	/	/
-5	5.57	1.43	3.90	5.13	1.47	3.49	5.14	1.62	3.18	5.69	1.94	2.93	7.05	2.84	2.48	7.08	3.29	2.15	7.27	3.20	2.27	5.66	3.72	1.52	/	/	/
0	6.01	1.22	4.93	5.69	1.35	4.22	5.46	1.46	3.74	5.90	1.81	3.26	7.62	2.62	2.91	7.54	2.91	2.59	7.48	2.91	2.57	6.29	3.43	1.83	/	/	/
5	6.77	1.13	5.99	5.75	1.25	4.60	6.24	1.36	4.59	6.74	1.71	3.94	8.70	2.43	3.58	8.66	2.82	3.07	9.06	3.00	3.02	8.61	3.36	2.56	7.51	3.51	2.14
7	6.93	1.08	6.41	5.64	1.05	5.37	6.40	1.27	5.04	6.94	1.56	4.45	8.97	2.26	3.97	8.96	2.58	3.47	9.91	3.13	3.17	9.41	3.29	2.86	7.83	3.41	2.30
10	7.31	1.05	6.97	6.48	1.14	5.68	6.88	1.27	5.41	7.40	1.62	4.57	9.53	2.31	4.13	9.51	2.66	3.58	10.15	2.99	3.39	9.73	3.24	3.00	8.62	3.38	2.55
15	7.36	0.93	7.92	7.53	1.05	7.17	7.35	1.18	6.23	8.41	1.62	5.19	10.25	2.21	4.64	10.95	2.67	4.10	11.34	3.02	3.76	10.45	3.16	3.31	9.12	3.37	2.71
20	6.64	0.70	9.48	6.73	0.82	8.20	6.62	0.92	7.19	8.13	1.36	5.98	8.99	1.85	4.86	9.07	2.26	4.02	9.77	2.57	3.80	9.37	2.87	3.27	/	/	/
25	6.59	0.63	10.46	6.61	0.79	8.36	6.51	0.81	8.03	7.95	1.17	6.79	8.94	1.61	5.55	9.15	1.96	4.67	9.33	2.22	4.20	8.99	2.69	3.34	/	/	/
30	7.25	0.62	11.70	7.54	0.80	9.43	8.34	0.96	8.69	8.87	1.21	7.33	8.84	1.47	6.01	9.20	1.74	5.29	8.91	1.95	4.57	9.00	2.66	3.39	/	/	/
35	7.71	0.61	12.64	8.24	0.79	10.43	9.00	0.94	9.58	9.43	1.21	7.80	9.29	1.48	6.28	9.72	1.74	5.59	9.18	1.92	4.78	/	/	/	/	/	/
40	8.18	0.61	13.41	8.96	0.76	11.78	9.70	0.93	10.43	9.84	1.19	8.27	9.63	1.46	6.60	10.25	1.75	5.86	/	/	/	/	/	/	/	/	/
43	8.60	0.61	14.09	9.40	0.76	12.37	10.15	0.94	10.80	10.35	1.21	8.55	10.15	1.46	6.95	10.65	1.75	6.08	/	/	/	/	/	/	/	/	/

Abbreviazioni:

LWT: Temperatura dell'acqua in uscita (°C)

DB: Temperatura a bulbo secco per la temperatura dell'aria esterna (°C)

HC: Capacità di riscaldamento totale (kW)

PI: Potenza in ingresso (kW)

5.2 tabelle per la capacità di raffrescamento (Norma di prova: EN14511)

Tabella 2-5.6: Capacità di raffrescamento per THMLd-8D/HBp-A

DB	LWT															
		5			10			15			20			25		
	Livello CC	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER
-5	max	/	/	/	/	/	/	6.26	0.65	9.67	8.05	0.78	10.38	8.57	0.72	11.83
	norm	/	/	/	/	/	/	5.04	0.46	10.89	6.55	0.54	12.11	6.96	0.52	13.38
	min	/	/	/	/	/	/	3.26	0.29	11.34	4.22	0.34	12.55	4.51	0.32	14.26
0	max	/	/	/	/	/	/	6.05	0.73	8.28	7.11	0.75	9.43	7.60	0.71	10.65
	norm	/	/	/	/	/	/	4.88	0.51	9.49	5.79	0.53	10.92	6.18	0.50	12.37
	min	/	/	/	/	/	/	3.17	0.32	9.93	3.75	0.33	11.50	4.03	0.32	12.74
5	max	/	/	/	/	/	/	5.84	0.84	6.93	6.17	0.73	8.41	6.64	0.70	9.44
	norm	/	/	/	/	/	/	4.67	0.62	7.58	4.95	0.53	9.33	5.39	0.52	10.36
	min	/	/	/	/	/	/	2.52	0.31	8.17	2.69	0.28	9.75	2.90	0.27	10.94
10	max	/	/	/	/	/	/	6.16	0.76	8.10	7.75	0.86	9.05	8.13	0.81	10.09
	norm	/	/	/	/	/	/	4.95	0.56	8.92	6.24	0.61	10.20	6.62	0.59	11.18
	min	/	/	/	/	/	/	2.74	0.29	9.53	3.49	0.32	11.03	3.68	0.31	12.01
15	max	/	/	/	5.85	0.89	6.59	7.18	1.02	7.06	8.93	1.17	7.61	9.54	1.14	8.35
	norm	/	/	/	4.39	0.63	6.94	6.04	0.81	7.43	7.67	0.92	8.36	8.01	0.88	9.13
	min	/	/	/	2.70	0.37	7.34	3.23	0.40	8.07	3.84	0.42	9.19	4.58	0.45	10.20
20	max	5.57	1.17	4.75	6.92	1.32	5.26	8.21	1.39	5.92	10.10	1.63	6.19	10.93	1.67	6.53
	norm	4.34	0.87	5.01	5.60	0.99	5.66	6.85	1.07	6.41	8.69	1.31	6.66	9.52	1.32	7.23
	min	2.20	0.42	5.25	2.45	0.42	5.86	3.40	0.50	6.75	4.78	0.68	7.00	5.40	0.70	7.67
25	max	6.34	1.51	4.20	7.66	1.66	4.61	9.07	1.73	5.25	11.03	1.94	5.69	12.50	2.06	6.07
	norm	5.03	1.13	4.44	6.29	1.26	4.97	7.68	1.37	5.62	9.62	1.55	6.21	11.03	1.62	6.80
	min	2.41	0.53	4.55	2.61	0.50	5.22	3.64	0.62	5.89	5.08	0.78	6.55	6.00	0.84	7.17
30	max	7.12	1.93	3.70	8.40	2.05	4.10	9.95	2.12	4.70	11.96	2.24	5.33	14.07	2.45	5.75
	norm	5.72	1.45	3.95	7.00	1.60	4.37	8.54	1.70	5.03	10.58	1.86	5.70	12.60	1.99	6.34
	min	2.72	0.67	4.05	2.87	0.63	4.54	4.00	0.76	5.26	5.53	0.92	6.02	6.78	1.03	6.58
35	max	7.24	2.30	3.16	8.59	2.36	3.65	10.01	2.37	4.21	11.51	2.45	4.70	13.32	2.55	5.22
	norm	5.64	1.70	3.31	7.06	1.80	3.93	8.25	1.81	4.56	10.05	1.99	5.05	12.14	2.13	5.70
	min	2.57	0.75	3.40	3.27	0.80	4.11	4.13	0.84	4.89	5.35	0.98	5.46	6.68	1.09	6.12
40	max	6.48	2.57	2.52	7.27	2.42	3.01	8.70	2.60	3.35	10.03	2.56	3.92	12.02	2.89	4.17
	norm	5.29	1.96	2.70	6.14	1.90	3.24	7.58	2.10	3.61	9.00	2.10	4.28	10.92	2.33	4.69
	min	2.39	0.89	2.69	2.88	0.86	3.36	3.71	1.00	3.72	4.81	1.08	4.45	6.21	1.31	4.76
43	max	4.99	2.33	2.14	5.53	2.23	2.47	6.60	2.19	3.01	7.99	2.21	3.61	9.84	2.54	3.87
	norm	4.10	1.84	2.23	4.35	1.69	2.57	5.25	1.66	3.17	6.84	1.75	3.90	7.78	1.84	4.24
	min	1.40	0.61	2.29	2.08	0.79	2.65	2.74	0.83	3.30	3.48	0.87	4.01	4.96	1.13	4.38

Abbreviazioni:

LWT: Temperatura dell'acqua in uscita (°C)

DB: Temperatura a bulbo secco per la temperatura dell'aria esterna (°C)

CC: Capacità di raffrescamento totale (kW)

PI: Potenza in ingresso (kW)

Tabella 2-5.7: Capacità di raffrescamento per THMLd-10D/HBp-A

DB	LWT															
		5			10			15			20			25		
	Livello CC	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER
-5	max	/	/	/	/	/	/	6.86	0.72	9.47	8.61	0.84	10.30	9.16	0.79	11.67
	norm	/	/	/	/	/	/	5.53	0.51	10.74	7.01	0.59	11.84	7.44	0.56	13.26
	min	/	/	/	/	/	/	3.58	0.32	11.36	4.52	0.37	12.30	4.83	0.35	13.93
0	max	/	/	/	/	/	/	6.64	0.81	8.22	7.60	0.83	9.20	8.13	0.78	10.49
	norm	/	/	/	/	/	/	5.36	0.57	9.45	6.20	0.58	10.67	6.62	0.54	12.24
	min	/	/	/	/	/	/	3.48	0.36	9.74	4.01	0.36	11.23	4.30	0.34	12.78
5	max	/	/	/	/	/	/	6.41	0.93	6.86	6.61	0.81	8.20	7.11	0.77	9.29
	norm	/	/	/	/	/	/	5.14	0.68	7.52	5.30	0.58	9.12	5.76	0.57	10.09
	min	/	/	/	/	/	/	2.76	0.35	7.98	2.87	0.30	9.71	3.11	0.29	10.88
10	max	/	/	/	/	/	/	6.58	0.79	8.36	8.01	0.82	9.81	8.62	0.88	9.83
	norm	/	/	/	/	/	/	5.29	0.58	9.15	6.45	0.59	10.90	7.02	0.65	10.75
	min	/	/	/	/	/	/	2.93	0.29	9.98	3.60	0.31	11.75	3.89	0.34	11.56
15	max	/	/	/	6.49	1.16	5.62	7.65	1.08	7.07	9.29	1.15	8.06	10.43	1.22	8.52
	norm	/	/	/	4.87	0.82	5.94	6.42	0.86	7.46	7.99	0.91	8.80	8.76	0.94	9.34
	min	/	/	/	2.99	0.48	6.29	3.44	0.43	7.98	4.00	0.41	9.80	5.01	0.48	10.45
20	max	6.32	1.36	4.66	7.41	1.50	4.93	8.71	1.52	5.72	10.57	1.67	6.32	12.24	1.71	7.14
	norm	4.93	1.01	4.89	5.99	1.13	5.29	7.27	1.19	6.12	9.10	1.34	6.81	10.65	1.35	7.91
	min	2.49	0.49	5.10	2.63	0.48	5.53	3.61	0.56	6.48	5.01	0.69	7.22	6.05	0.72	8.35
25	max	7.27	1.78	4.08	8.51	1.95	4.35	9.92	1.97	5.03	11.76	2.11	5.57	13.65	2.21	6.17
	norm	5.76	1.34	4.31	6.98	1.49	4.69	8.39	1.58	5.33	10.26	1.69	6.06	12.05	1.74	6.91
	min	2.76	0.63	4.42	2.89	0.59	4.87	3.97	0.70	5.64	5.41	0.85	6.39	6.56	0.91	7.22
30	max	8.22	2.30	3.57	9.62	2.49	3.86	11.14	2.52	4.42	12.95	2.62	4.94	15.06	2.85	5.29
	norm	6.61	1.74	3.80	8.01	1.94	4.12	9.56	2.02	4.74	11.46	2.16	5.30	13.48	2.31	5.85
	min	3.14	0.81	3.90	3.29	0.76	4.35	4.47	0.90	4.95	5.98	1.07	5.58	7.26	1.20	6.03
35	max	8.29	2.63	3.15	9.76	2.62	3.72	11.09	2.75	4.03	12.45	2.73	4.55	14.22	2.93	4.86
	norm	6.44	2.05	3.15	8.01	2.10	3.82	9.14	2.11	4.33	10.86	2.22	4.88	12.97	2.44	5.32
	min	2.94	0.90	3.26	3.72	0.93	4.00	4.57	0.99	4.63	5.78	1.09	5.30	7.13	1.25	5.69
40	max	6.74	2.67	2.52	7.64	2.56	2.99	8.92	2.66	3.36	10.03	2.56	3.92	12.02	2.89	4.17
	norm	5.51	2.04	2.71	6.46	2.01	3.21	7.77	2.14	3.63	9.00	2.10	4.28	10.92	2.33	4.69
	min	2.49	0.92	2.70	3.03	0.91	3.34	3.81	1.02	3.74	4.81	1.08	4.45	6.21	1.31	4.76
43	max	5.19	2.42	2.15	5.81	2.37	2.46	6.76	2.24	3.02	7.99	2.21	3.61	9.84	2.54	3.87
	norm	4.26	1.91	2.23	4.57	1.79	2.55	5.39	1.69	3.19	6.84	1.75	3.90	7.78	1.84	4.24
	min	1.46	0.64	2.29	2.18	0.83	2.63	2.81	0.85	3.31	3.48	0.87	4.01	4.96	1.13	4.38

Abbreviazioni:

LWT: Temperatura dell'acqua in uscita (°C)

DB: Temperatura a bulbo secco per la temperatura dell'aria esterna (°C)

CC: Capacità di raffrescamento totale (kW)

PI: Potenza in ingresso (kW)

Tabella 2-5.8: Capacità di raffrescamento per THMLd-12D(S)/HBp-A

Massimo															
DB	LWT														
	5			10			15			20			25		
	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER
-5	/	/	/	/	/	/	9.60	1.28	7.50	10.44	1.42	7.37	11.45	1.37	8.35
0	/	/	/	/	/	/	9.38	1.58	5.93	10.95	1.50	7.32	11.95	1.51	7.92
5	/	/	/	/	/	/	9.17	1.72	5.32	11.47	1.58	7.27	12.44	1.65	7.57
10	/	/	/	/	/	/	10.86	2.06	5.27	13.21	1.93	6.85	14.25	1.95	7.32
15	/	/	/	10.56	2.33	4.53	12.56	2.34	5.36	14.94	2.28	6.56	16.06	2.25	7.14
20	7.82	2.04	3.83	12.21	2.97	4.10	14.23	3.14	4.54	16.01	3.16	5.08	16.61	2.85	5.82
25	10.15	3.02	3.37	13.87	3.63	3.82	15.90	3.93	4.04	17.09	4.03	4.24	17.16	3.46	4.96
30	10.04	3.60	2.79	13.50	4.15	3.25	15.26	4.19	3.64	16.25	4.17	3.90	16.19	3.76	4.31
35	9.94	4.54	2.19	13.14	4.92	2.67	14.60	4.58	3.19	15.42	4.40	3.51	15.34	4.02	3.81
40	8.15	4.55	1.79	9.92	4.35	2.28	10.72	3.94	2.72	12.25	4.07	3.01	13.30	3.79	3.51
43	5.23	3.74	1.40	6.14	3.28	1.87	7.37	3.04	2.43	8.57	3.21	2.67	10.73	3.28	3.27
Normale															
DB	LWT														
	5			10			15			20			25		
	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER
-5	/	/	/	/	/	/	7.73	0.91	8.47	8.50	0.99	8.51	9.30	0.97	9.52
0	/	/	/	/	/	/	7.57	1.12	6.78	8.93	1.06	8.48	9.72	1.06	9.22
5	/	/	/	/	/	/	7.34	1.27	5.80	9.21	1.14	8.10	10.10	1.22	8.32
10	/	/	/	/	/	/	8.72	1.52	5.75	10.62	1.39	7.65	11.60	1.44	8.07
15	/	/	/	7.92	1.63	4.86	10.55	1.81	5.82	12.84	1.75	7.36	13.50	1.68	8.05
20	6.10	1.52	4.02	9.88	2.21	4.46	11.87	2.37	4.99	13.78	2.45	5.61	14.46	2.20	6.56
25	8.04	2.25	3.56	11.39	2.72	4.17	13.46	3.06	4.41	14.91	3.16	4.73	15.15	2.66	5.68
30	8.08	2.72	2.97	11.25	3.20	3.52	13.10	3.29	3.99	14.38	3.36	4.28	14.50	2.98	4.86
35	7.72	3.36	2.30	10.78	3.71	2.91	12.03	3.43	3.51	13.46	3.49	3.86	13.98	3.28	4.27
40	6.65	3.47	1.92	8.39	3.37	2.49	9.33	3.11	3.00	10.99	3.26	3.38	12.06	2.98	4.05
43	4.29	2.94	1.45	4.82	2.45	1.97	5.86	2.24	2.61	7.34	2.48	2.96	8.48	2.31	3.66
Minimo															
DB	LWT														
	5			10			15			20			25		
	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER
-5	/	/	/	/	/	/	5.00	0.56	8.83	5.49	0.62	8.78	6.03	0.60	9.98
0	/	/	/	/	/	/	4.90	0.69	7.09	5.78	0.65	8.84	6.32	0.66	9.56
5	/	/	/	/	/	/	3.95	0.63	6.23	4.98	0.58	8.61	5.44	0.60	8.95
10	/	/	/	/	/	/	4.83	0.77	6.24	5.94	0.72	8.20	6.43	0.73	8.75
15	/	/	/	4.85	0.94	5.16	5.66	0.91	6.22	6.42	0.79	8.11	7.71	0.86	8.92
20	3.09	0.73	4.18	4.32	0.92	4.65	5.89	1.12	5.29	7.59	1.29	5.92	8.20	1.19	6.93
25	3.86	1.06	3.65	4.71	1.08	4.38	6.36	1.37	4.64	7.86	1.59	4.96	8.23	1.39	5.95
30	3.84	1.27	3.03	4.61	1.26	3.68	6.13	1.47	4.17	7.51	1.66	4.51	7.81	1.55	5.04
35	3.52	1.49	2.36	5.00	1.65	3.04	6.02	1.60	3.76	7.17	1.72	4.18	7.70	1.69	4.56
40	3.00	1.57	1.91	3.93	1.54	2.56	4.57	1.47	3.11	5.88	1.68	3.50	6.86	1.67	4.12
43	1.47	0.98	1.48	2.31	1.14	2.03	3.07	1.13	2.72	3.74	1.23	3.04	5.41	1.43	3.80

Abbreviazioni:

LWT: Temperatura dell'acqua in uscita (°C)

DB: Temperatura a bulbo secco perla temperatura dell'aria esterna (°C)

CC: Capacità di raffrescamento totale (kW)

PI: Potenza in ingresso (kW)

Tabella 2-5.9: Capacità di raffrescamento per THMLd-14D(S)/HBp-A

Massimo															
DB	LWT														
	5			10			15			20			25		
	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER
-5	/	/	/	/	/	/	10.1	1.33	7.57	11.0	1.48	7.44	12.1	1.43	8.43
0	/	/	/	/	/	/	9.85	1.68	5.87	11.5	1.59	7.24	12.6	1.60	7.84
5	/	/	/	/	/	/	9.62	1.77	5.44	12.1	1.62	7.43	13.1	1.69	7.73
10	/	/	/	/	/	/	11.4	2.19	5.21	13.2	1.93	6.85	14.3	1.95	7.32
15	/	/	/	11.1	2.33	4.60	13.2	2.33	5.45	15.6	2.33	6.67	16.5	2.33	7.26
20	8.21	2.18	3.77	12.9	3.18	4.04	15.0	3.35	4.47	16.0	3.16	5.08	16.6	2.85	5.82
25	10.7	3.21	3.32	14.6	3.86	3.77	16.7	4.18	3.99	17.1	4.03	4.24	17.2	3.46	4.96
30	10.6	3.98	2.65	14.2	4.55	3.11	16.0	4.58	3.49	16.3	4.20	3.87	16.2	3.76	4.31
35	10.5	4.83	2.16	13.8	5.35	2.58	15.4	4.90	3.13	15.4	4.46	3.45	15.4	4.14	3.71
40	8.15	4.55	1.79	9.92	4.35	2.28	10.8	3.94	2.72	12.3	4.07	3.01	13.3	3.79	3.51
43	5.23	3.74	1.40	6.14	3.28	1.87	7.37	3.04	2.43	8.57	3.21	2.67	10.8	3.28	3.27
Normale															
DB	LWT														
	5			10			15			20			25		
	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER
-5	/	/	/	/	/	/	8.11	0.94	8.56	8.92	1.04	8.60	9.77	1.02	9.61
0	/	/	/	/	/	/	7.94	1.19	6.71	9.38	1.12	8.39	10.3	1.12	9.13
5	/	/	/	/	/	/	7.71	1.30	5.93	9.66	1.17	8.28	10.7	1.25	8.50
10	/	/	/	/	/	/	9.17	1.61	5.69	10.7	1.39	7.65	11.6	1.44	8.07
15	/	/	/	8.28	1.68	4.94	11.1	1.86	5.92	13.5	1.80	7.48	13.9	1.69	8.19
20	6.40	1.62	3.96	10.4	2.36	4.40	12.5	2.53	4.92	13.8	2.45	5.61	14.5	2.20	6.56
25	8.44	2.40	3.52	12.0	2.90	4.12	14.2	3.25	4.35	14.9	3.16	4.73	15.2	2.66	5.68
30	8.48	3.01	2.82	11.9	3.51	3.37	13.8	3.59	3.83	14.4	3.39	4.25	14.5	2.98	4.86
35	8.11	3.58	2.27	11.4	4.02	2.81	12.7	3.67	3.45	13.5	3.54	3.80	14.0	3.37	4.15
40	6.65	3.47	1.92	8.39	3.37	2.49	9.33	3.11	3.00	11.0	3.26	3.38	12.1	2.98	4.05
43	4.29	2.94	1.45	4.82	2.45	1.97	5.86	2.24	2.61	7.34	2.48	2.96	8.48	2.31	3.66
Minimo															
DB	LWT														
	5			10			15			20			25		
	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER
-5	/	/	/	/	/	/	5.25	0.59	8.92	5.76	0.65	8.86	6.33	0.63	10.08
0	/	/	/	/	/	/	5.16	0.73	7.01	6.07	0.69	8.75	6.64	0.70	9.47
5	/	/	/	/	/	/	4.14	0.65	6.37	5.24	0.59	8.80	5.71	0.62	9.15
10	/	/	/	/	/	/	5.09	0.82	6.16	5.94	0.72	8.20	6.43	0.73	8.75

15	/	/	/	5.08	0.96	5.24	5.91	0.93	6.32	6.71	0.81	8.25	7.90	0.87	9.07
20	3.24	0.78	4.12	4.54	0.99	4.58	6.19	1.19	5.21	7.59	1.29	5.92	8.20	1.19	6.93
25	4.05	1.13	3.60	4.95	1.15	4.32	6.68	1.46	4.58	7.86	1.59	4.96	8.23	1.39	5.95
30	4.03	1.40	2.88	4.84	1.38	3.53	6.44	1.61	4.01	7.51	1.68	4.48	7.81	1.55	5.04
35	3.69	1.59	2.33	5.26	1.79	2.94	6.32	1.71	3.69	7.17	1.74	4.11	7.70	1.74	4.44
40	3.00	1.57	1.91	3.93	1.54	2.56	4.57	1.47	3.11	5.88	1.68	3.50	6.86	1.67	4.12
43	1.47	0.98	1.48	2.31	1.14	2.03	3.07	1.13	2.72	3.74	1.23	3.04	5.41	1.43	3.80

Abbreviazioni:

LWT: Temperatura dell'acqua in uscita (°C)

DB: Temperatura a bulbo secco per la temperatura dell'aria esterna (°C)

CC: Capacità di raffrescamento totale (kW)

PI: Potenza in ingresso (kW)

Tabella 2-5.9: Capacità di raffrescamento per THMLd-16D(S)/HBp-A

Massimo															
DB	LWT														
	5			10			15			20			25		
	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER
-5	/	/	/	/	/	/	10.1	1.33	7.57	11.0	1.48	7.44	12.1	1.43	8.43
0	/	/	/	/	/	/	9.85	1.68	5.87	11.5	1.59	7.24	12.6	1.60	7.84
5	/	/	/	/	/	/	9.62	1.77	5.44	12.1	1.62	7.43	13.1	1.69	7.73
10	/	/	/	/	/	/	11.4	2.19	5.21	13.2	1.93	6.85	14.3	1.95	7.32
15	/	/	/	11.5	2.44	4.67	13.6	2.45	5.53	16.2	2.38	6.77	17.1	2.31	7.37
20	9.03	2.44	3.70	14.1	3.57	3.96	15.9	3.58	4.42	17.0	3.38	5.03	17.6	3.06	5.76
25	11.8	3.61	3.25	16.0	4.34	3.69	17.5	4.49	3.90	18.0	4.33	4.14	18.0	3.72	4.84
30	11.6	4.48	2.59	15.6	5.14	3.04	17.3	5.08	3.41	17.2	4.68	3.68	17.0	4.04	4.21
35	11.5	5.45	2.11	15.2	6.03	2.52	16.6	5.63	2.94	16.4	4.98	3.27	16.3	4.49	3.62
40	8.96	5.14	1.75	11.0	4.91	2.22	11.8	4.44	2.65	13.5	4.71	2.86	14.7	4.38	3.34
43	6.01	4.52	1.33	7.37	4.14	1.78	9.06	3.93	2.31	10.6	4.15	2.54	12.1	3.87	3.11
Normale															
DB	LWT														
	5			10			15			20			25		
	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER
-5	/	/	/	/	/	/	8.11	0.94	8.56	8.92	1.04	8.60	9.77	1.02	9.61
0	/	/	/	/	/	/	7.94	1.19	6.71	9.38	1.12	8.39	10.3	1.12	9.13
5	/	/	/	/	/	/	7.71	1.30	5.93	9.66	1.17	8.28	10.7	1.25	8.50
10	/	/	/	/	/	/	9.17	1.61	5.69	10.7	1.39	7.65	11.6	1.44	8.07
15	/	/	/	8.56	1.71	5.02	11.5	1.90	6.01	13.9	1.83	7.59	14.3	1.72	8.31
20	7.05	1.81	3.88	11.5	2.64	4.31	13.2	2.71	4.87	14.6	2.63	5.56	15.4	2.36	6.49
25	9.29	2.70	3.43	13.2	3.27	4.02	14.9	3.49	4.25	15.7	3.39	4.62	15.9	2.86	5.55
30	9.33	3.39	2.75	13.0	3.95	3.29	14.9	3.97	3.74	15.3	3.77	4.04	15.2	3.21	4.75
35	8.91	4.03	2.21	12.5	4.53	2.75	13.7	4.21	3.24	14.3	3.96	3.60	14.8	3.66	4.05
40	7.32	3.91	1.87	9.23	3.80	2.43	10.3	3.51	2.93	12.1	3.77	3.21	13.3	3.45	3.84
43	4.93	3.57	1.38	5.79	3.10	1.87	7.21	2.90	2.48	9.02	3.22	2.81	9.51	2.73	3.48
Minimo															

DB	LWT														
	5			10			15			20			25		
	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER	CC	PI	EER
-5	/	/	/	/	/	/	5.25	0.59	8.92	5.76	0.65	8.86	6.33	0.63	10.08
0	/	/	/	/	/	/	5.16	0.73	7.01	6.07	0.69	8.75	6.64	0.70	9.47
5	/	/	/	/	/	/	4.14	0.65	6.37	5.24	0.59	8.80	5.71	0.62	9.15
10	/	/	/	/	/	/	5.09	0.82	6.16	5.94	0.72	8.20	6.43	0.73	8.75
15	/	/	/	5.26	0.98	5.32	6.11	0.95	6.41	6.94	0.83	8.37	8.18	0.88	9.21
20	3.56	0.88	4.04	4.99	1.12	4.49	6.56	1.28	5.15	8.05	1.38	5.86	8.69	1.27	6.86
25	4.45	1.27	3.52	5.45	1.29	4.22	7.01	1.57	4.47	8.25	1.70	4.85	8.64	1.49	5.81
30	4.43	1.58	2.81	5.34	1.55	3.44	6.95	1.78	3.91	7.96	1.87	4.26	8.19	1.67	4.92
35	4.06	1.79	2.27	5.78	2.01	2.87	6.82	1.97	3.47	7.60	1.95	3.90	8.16	1.88	4.33
40	3.31	1.77	1.86	4.32	1.73	2.50	5.04	1.66	3.03	6.46	1.94	3.33	7.56	1.93	3.91
43	1.69	1.20	1.41	2.77	1.44	1.93	3.77	1.46	2.58	4.59	1.59	2.89	6.06	1.68	3.61

6 Limiti di funzionamento

Figura 2-6.1: Limiti di funzionamento del riscaldamento₁

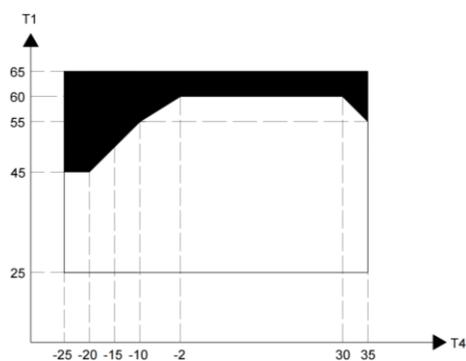


Figura 2-6.2: Limiti di funzionamento del raffrescamento₁

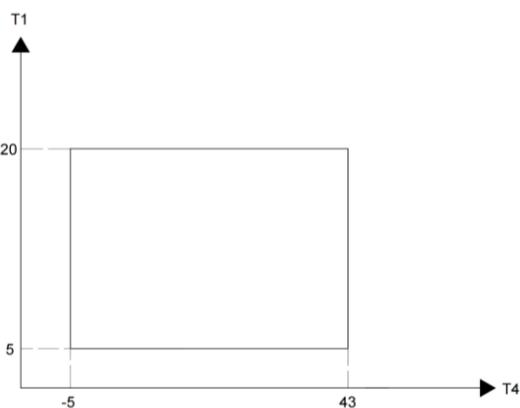


Figura 2-6.3: Limiti di funzionamento per l'acqua calda sanitaria₁



Abbreviazioni:

T4: Temperatura esterna (°C)

T1: Temperatura dell'acqua in uscita (°C)

IBH: Riscaldatore elettrico di riserva

AHS: Sorgente di calore aggiuntiva

Note:

1. ■ Solo IBH

2. □ Solo HP

7 Prestazioni idroniche

Figura 2-7.1: Prestazioni idroniche THMLd-4(6, 8, 10)D/HBp-A

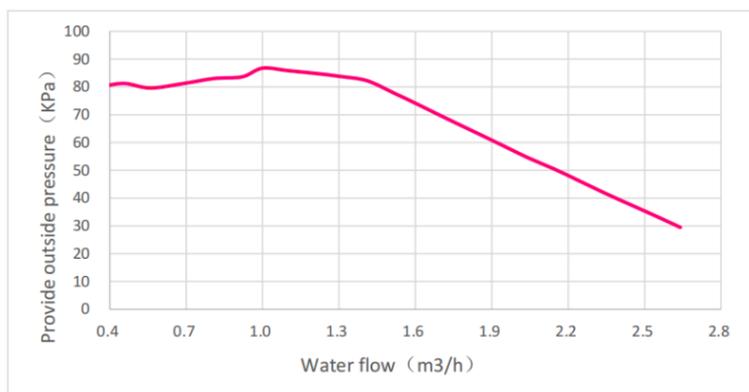
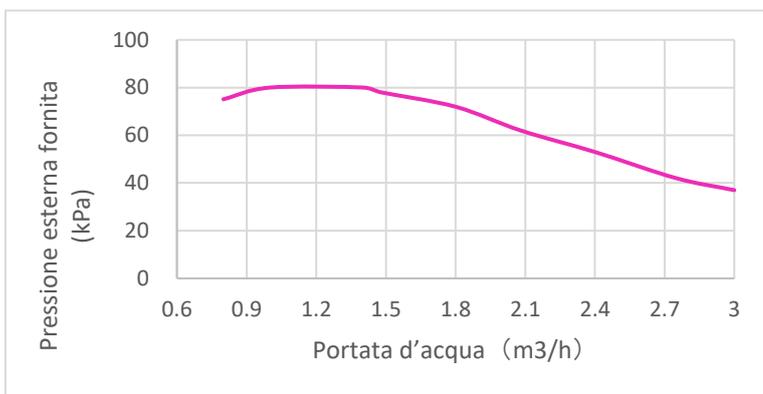


Figura 2-7.1: Prestazioni idroniche THMLd-12D(S)/HBp-A, THMLd-14D(S)/HBp-A, THMLd-16D(S)/HBp-A



8 Livelli sonori

8.1 Panoramica

Tabella 2-8.1 livelli di pressione sonora

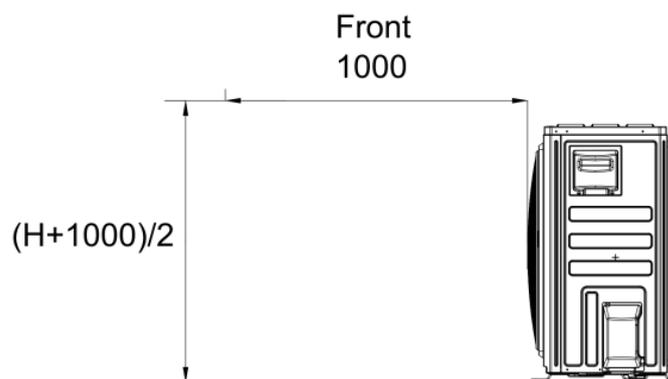
Nome modello	dB
THMLd-4D/3HBp-A	44
THMLd-6D/3HBp-A	45
THMLd-8D/3HBp-A	47
THMLd-10D/3HBp-A	50
THMLd-12D/3HBp-A	53
THMLd-14D/3HBp-A	54
THMLd-16D/3HBp-A	55
THMLd-12S/6(9)HBp-A	53

THMLd-14S/6(9)HBp-A	54
THMLd-16S/6(9)HBp-A	55

Note:

1. Il livello di pressione sonora è misurato a 1 m davanti all'unità e a $(1+H)/2$ m (dove H è l'altezza dell'unità) dal pavimento in una camera semi-anecoica. Durante il funzionamento in loco, i livelli di pressione sonora possono essere più elevati a causa del rumore ambientale. Il livello di pressione sonora è il valore massimo testato nelle due condizioni di cui alla Nota 2 e alla Nota 3. Per il modello da 16 kW, il valore è calcolato ed è fornito a solo titolo di riferimento.

Figura 2-8.1: Misura dei livelli di pressione sonora (unità di misura: mm)

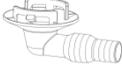


Note:

1. Il livello di pressione sonora è misurato a 1 m davanti all'unità e a $(1+H)/2$ m (dove H è l'altezza dell'unità) dal pavimento in una camera semi-anecoica. Durante il funzionamento in loco, i livelli di pressione sonora possono essere più elevati a causa del rumore ambientale. Il livello di pressione sonora è il valore massimo testato nelle due condizioni di cui alla Nota 2 e alla Nota 3. Per il modello da 16 kW, il valore è calcolato ed è fornito a solo titolo di riferimento.
2. Temperatura aria esterna 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C.
3. Temperatura aria esterna 35°C DB; EWT 23°C, LWT 18°C.

9 Accessori

9.1 Unità esterna

Nome	Forma	Quantità
Manuale dei dati tecnici		1
Tubo flessibile di scarico		1
Etichetta energetica		2
Manuale d'uso (comando cablato)		1
Manuale d'installazione ed uso		1
Sensore di temperatura del serbatoio dell'acqua		1
Comando cablato		1
Cavo comando cablato	/	1
Filtro a Y		1

Parte 3 Installazione e impostazione in loco

1 Prefazione alla parte 3

1.1 Note sui box per gli installatori

Le informazioni contenute nel presente Manuale tecnico possono essere utilizzate principalmente per la progettazione di un sistema TCL Tri-Thermal Mono. Altre informazioni importanti che possono essere utili soprattutto durante l'installazione sul campo sono state inserite in box intitolati "Note per gli installatori" come nell'esempio seguente.

- I box delle note per gli installatori contengono informazioni importanti che possono essere utili soprattutto durante l'installazione sul campo, piuttosto che durante la progettazione a tavolino degli impianti.

1.2 Definizioni

Nel presente Manuale tecnico, il termine "legislazione applicabile" si riferisce a tutte le leggi, gli standard, i codici, le norme, i regolamenti e le altre legislazioni nazionali, locali e di altro tipo che si applicano in una determinata situazione.

1.3 Precauzioni

Tutte le installazioni del sistema, inclusa l'installazione delle tubazioni del refrigerante, delle tubazioni dell'acqua e degli impianti elettrici, devono essere eseguite esclusivamente da professionisti competenti e adeguatamente qualificati, certificati e accreditati e in conformità a tutte le normative vigenti.

2 Installazione

2.1 Accettazione e disimballaggio

- Quando le unità vengono consegnate, verificare che non abbiano subito danni durante la spedizione. In caso di danni alla superficie o all'esterno di un'unità, presentare un rapporto scritto allo spedizioniere.
- Verificare che il modello, le specifiche e la quantità delle unità consegnate siano conformi all'ordine.
- Verificare che tutti gli accessori ordinati siano stati inclusi. Conservare il Manuale d'uso per futura consultazione.

2.2 Sollevamento

- Non rimuovere alcun elemento dell'imballaggio prima del sollevamento. Se le unità non sono imballate o se l'imballaggio è danneggiato, utilizzare tavole o un materiale di imballaggio adeguato per proteggere le unità.
- Sollevare un'unità alla volta utilizzando due corde per garantirne la stabilità.
- Durante il sollevamento, mantenere le unità in posizione verticale, assicurandosi che l'angolo rispetto alla verticale non superi i 30°.

2.3 Considerazioni sulla collocazione

La collocazione dell'unità esterna deve tenere in considerazione quanto segue:

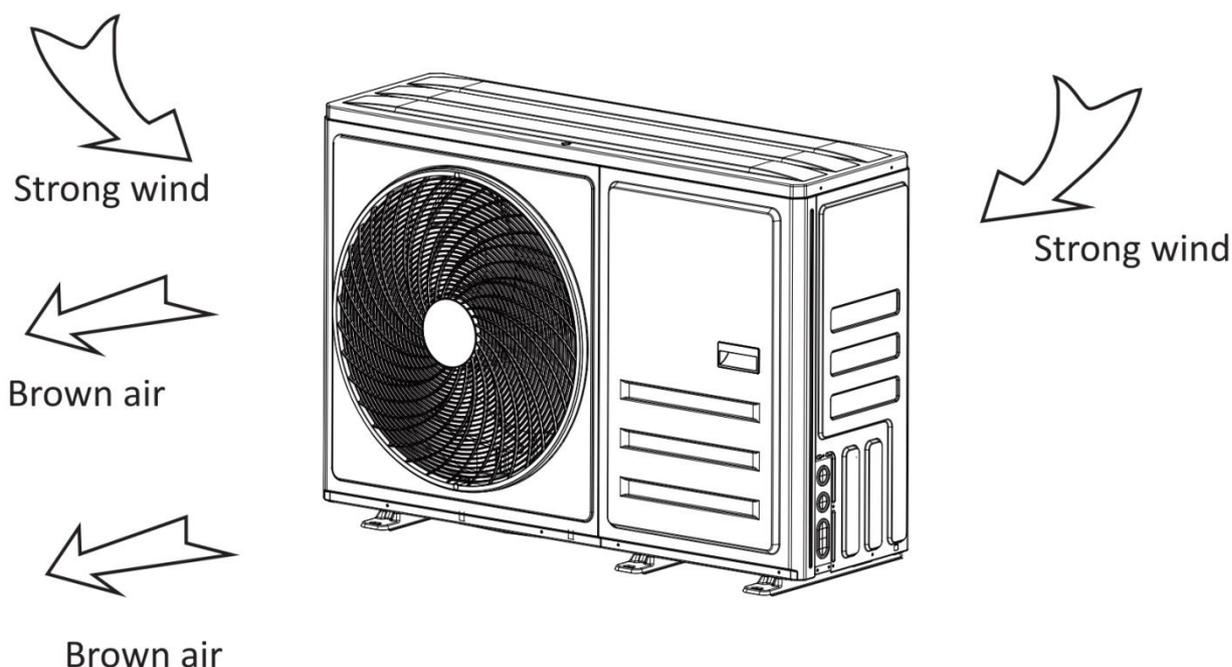
- Il monoblocco non deve essere esposto all'irraggiamento diretto di una fonte di calore ad alta temperatura.
- Il monoblocco non deve essere installato in posizioni in cui polvere o sporcizia possano intaccare gli scambiatori di calore.
- Il monoblocco non deve essere installato in luoghi in cui si possa verificare l'esposizione a olio o a gas corrosivi o nocivi, come gas acidi o alcalini.
- Il monoblocco non deve essere installato in luoghi esposti a livelli elevati di salinità.
- Il monoblocco deve essere installato in posizioni con scarichi efficienti e ben ventilate.
- Il monoblocco deve essere installato in luoghi in cui il rumore dell'unità non disturbi i vicini.

2.4 Installazione in condizioni di vento forte

Un vento che soffia a una velocità di 5 m/s o più contro l'uscita dell'aria di un'unità esterna blocca il flusso d'aria attraverso l'unità, causando il deterioramento della capacità dell'unità stessa, un più rapido accumulo di gelo in modalità di riscaldamento o in modalità produzione di acqua calda sanitaria (Figura 3-2.1: Direzione di installazione in presenza di vento forte) e una potenziale perturbazione del funzionamento a causa dell'aumento della pressione nel circuito del refrigerante. L'esposizione a un vento molto forte può anche causare una rotazione eccessivamente rapida della ventola, con possibili danni alla stessa. Nei luoghi in cui è possibile che si verifichi un'esposizione a venti forti, è necessario tenere in considerazione quanto segue:

Per l'installazione dell'unità esterna in un luogo in cui è possibile prevedere la direzione del vento. Posizionare il lato di uscita ad angolo retto rispetto alla direzione del vento; fare riferimento alla Figura 3-2.1.

Figura 3-2.4: Direzione di installazione in presenza di vento forte



Se il lato di uscita dell'aria è rivolto verso il muro di un edificio, una recinzione o un riparo. Assicurarsi che lo spazio a disposizione sia sufficiente per l'installazione.

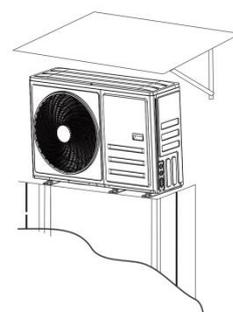
2.5 Installazione in climi freddi

L'installazione in climi freddi deve tenere in considerazione quanto segue: *Figura 3-2.5: Protezione dalla neve*

Non installare mai l'unità in un luogo in cui il lato di aspirazione possa essere esposto direttam

Per evitare l'esposizione al vento, installare un deflettore sul lato di scarico dell'aria dell'unità.

Per evitare l'esposizione al vento, installare l'unità con il lato di aspirazione rivolto verso la par



In caso di forti nevicate, installare una tettoia per evitare che la neve penetri nell'unità. Inoltre, l'altezza della struttura di base deve essere aumentata in modo da sollevare l'unità dal suolo. Fare riferimento alla Figura 3-2.2.

2.6 Installazione in climi caldi

Poiché la temperatura esterna è misurata tramite il termistore dell'aria dell'unità esterna, assicurarsi di installare l'unità esterna all'ombra o realizzare una tettoia in modo da evitare l'esposizione dell'unità alla luce solare diretta e l'influenza del calore del sole. In caso contrario l'unità potrebbe entrare in modalità protezione.

2.7 Struttura di base

La progettazione della struttura di base dell'unità esterna deve tenere in considerazione quanto segue:

Una base solida evita vibrazioni e rumori eccessivi. Le basi delle unità esterne devono essere realizzate su un terreno solido o su strutture sufficientemente robuste da sostenere il peso dell'unità.

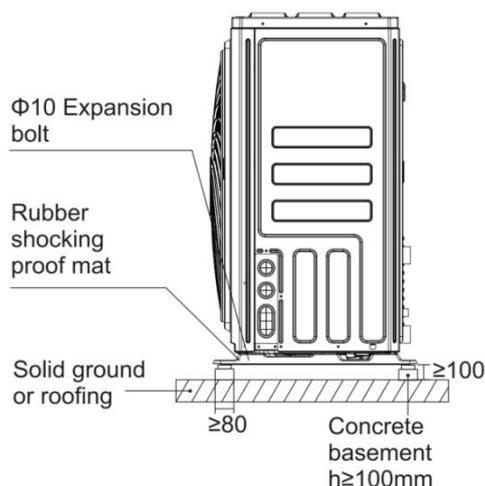
Le basi devono essere alte almeno 100 mm per garantire un drenaggio sufficiente ed evitare che l'acqua penetri nella base stessa dell'unità.

È possibile utilizzare basi in acciaio o in calcestruzzo.

Il monoblocco non deve essere installato su strutture portanti che potrebbero essere danneggiate dall'accumulo di acqua in caso di ostruzione dello scarico.

Fissare saldamente l'unità alla fondazione mediante il bullone a espansione $\Phi 10$. È consigliabile avvitare i bulloni nella fondazione fino a raggiungere una lunghezza di 20 mm dalla superficie della fondazione stessa.

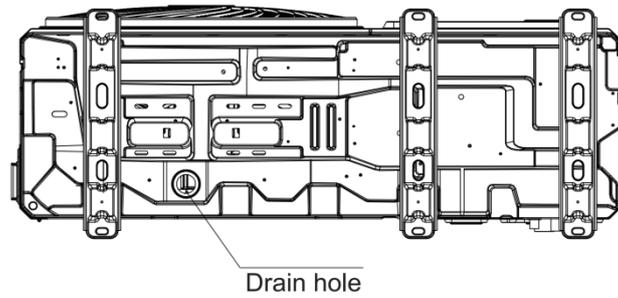
Figura 3-2.7: Fissaggio dell'unità



2.8 Drenaggio

È necessario prevedere una fossa di drenaggio per consentire lo scarico della condensa che potrebbe formarsi sullo scambiatore di calore lato aria quando l'unità funziona in modalità riscaldamento o acqua calda sanitaria. Il drenaggio deve garantire che la condensa sia incanalata lontano da strade e sentieri, soprattutto in climi in cui la condensa potrebbe congelare.

Figura 3-2.4: Foro di scarico dei modelli 8-16kW



2.9 Distanze

Installazione di unità singola

Le unità esterne devono essere distanziate in modo da consentire un flusso d'aria sufficiente attraverso ogni unità. Un flusso d'aria sufficiente attraverso gli scambiatori di calore è essenziale per il corretto funzionamento del monoblocco.

Figura 3-2.5: Requisiti di installazione per unità singola (Unità di misura: mm)

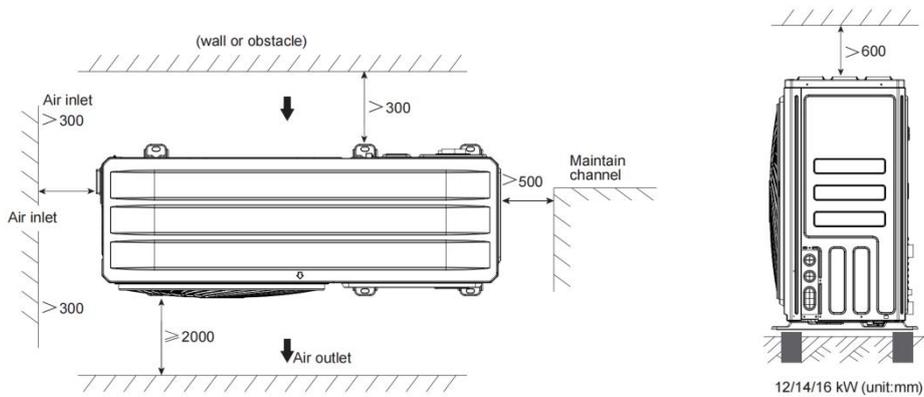
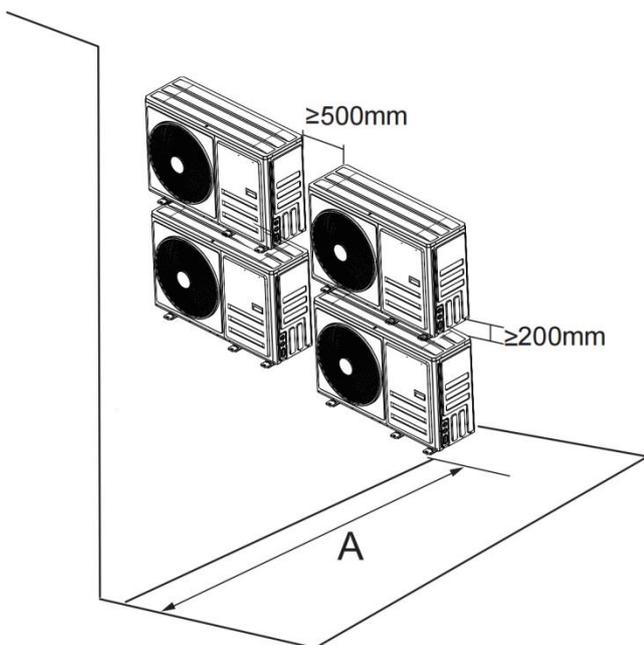
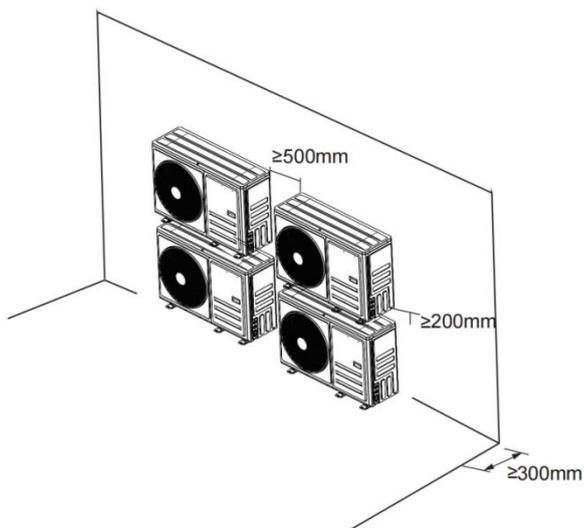


Figura 3-2.6: Installazione con ostacoli davanti all'unità Tabella 3-2.1: Distanza minima da ostacoli davanti all'unità



Nome modello	A (mm)
THMLd-4D/HBp-A	1000
THMLd-6D/HBp-A	
THMLd-8D/HBp-A	1500
THMLd-10D/HBp-A	
THMLd-12D(S)/HBp-A	
THMLd-14D(S)/HBp-A	
THMLd-16D(S)/HBp-A	

Figura 3-2.7: Installazione con ostacoli dietro l'unità



Installazione su file

Figura 3-2.8: Installazione su fila singola

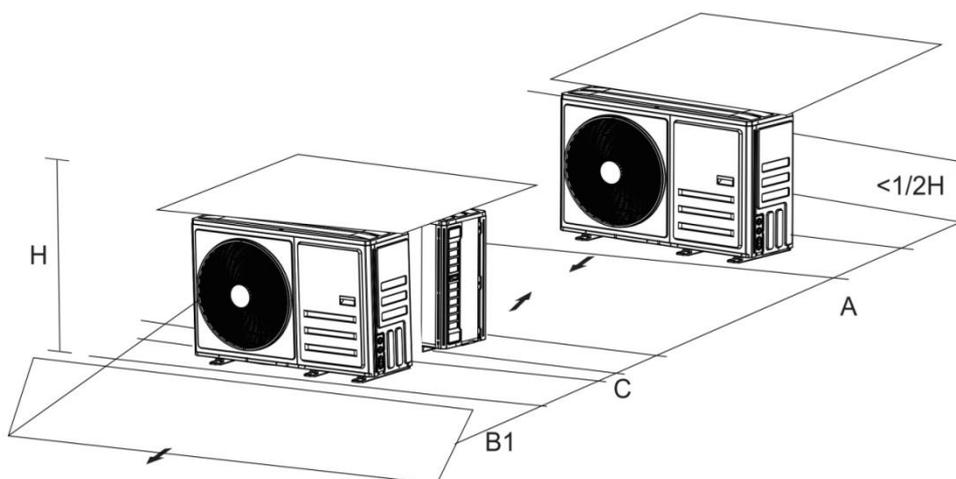


Tabella 3-2.2: Requisiti di distanza per installazione su fila singola

Nome modello	A (mm)	B1 (mm)	B2 (mm)	C (mm)
THMLd-4D/HBp-A	≥1500	≥500	≥150	≥300
THMLd-6D/HBp-A				
THMLd-8D/HBp-A	≥2000	≥1000	≥150	≥300
THMLd-10D/HBp-A				
THMLd-12D(S)/HBp-A				
THMLd-14D(S)/HBp-A				
THMLd-16D(S)/HBp-A				

Figura 3-2.9: Installazione su più file

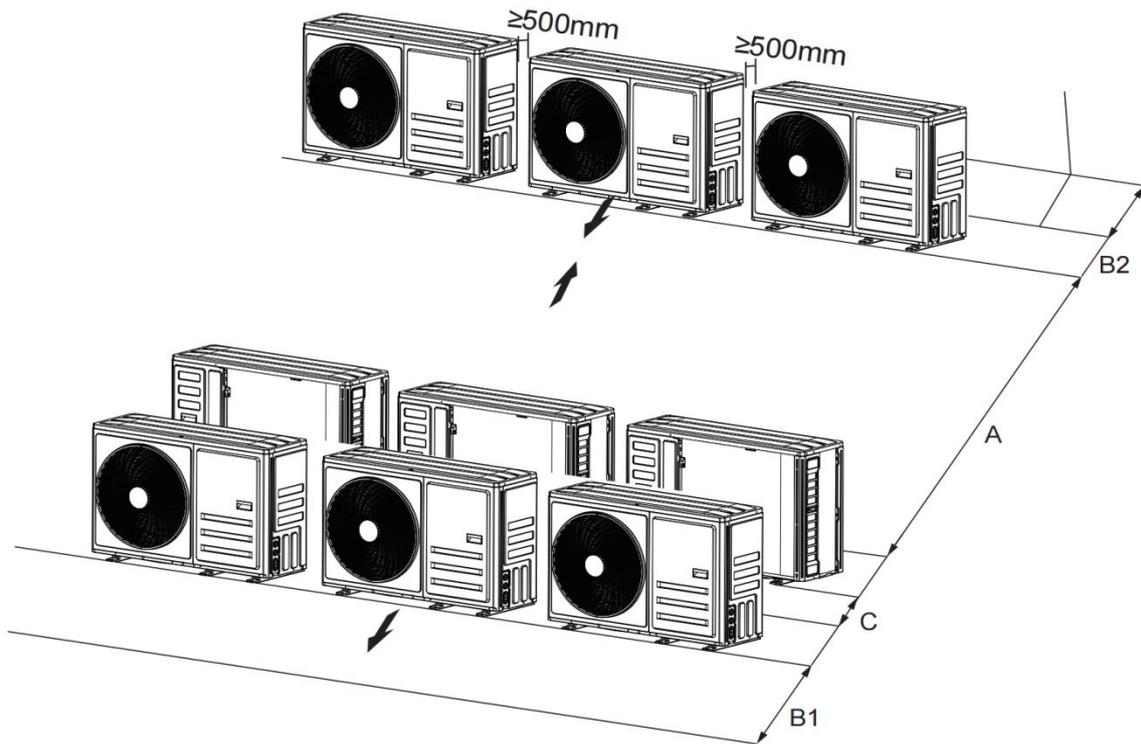


Tabella 3-2.3: Requisiti di distanza per installazione su file multiple

Nome modello	A (mm)	B1 (mm)	B2 (mm)	C (mm)
THMLd-4D/HBp-A	≥2500	≥1000	≥300	≥600
THMLd-6D/HBp-A				
THMLd-8D/HBp-A				
THMLd-10D/HBp-A				
THMLd-12D(S)/HBp-A	≥3000	≥1500	≥300	≥600
THMLd-14D(S)/HBp-A				
THMLd-16D(S)/HBp-A				

3 Tubazioni dell'acqua

3.1 Controlli dei circuiti idraulici

Le unità Tri-Thermal Mono sono dotate di un ingresso e di un'uscita per il collegamento a un circuito idraulico. Le unità Tri-Thermal Mono devono essere collegate solo a circuiti idraulici chiusi. Il collegamento a un circuito idraulico aperto provocherebbe un'eccessiva corrosione delle tubazioni dell'acqua. Utilizzare esclusivamente materiali conformi a tutte le normative vigenti.

Prima di proseguire con l'installazione dell'unità, verificare quanto segue:

- La pressione massima dell'acqua ≤ 3 bar.
- La temperatura massima dell'acqua $\leq 70^{\circ}\text{C}$ secondo l'impostazione del dispositivo di sicurezza.
- Utilizzare sempre materiali compatibili con l'acqua utilizzata nell'impianto e con i materiali utilizzati nell'unità.

- Assicurarsi che i componenti installati nelle tubazioni sul campo siano in grado di resistere alla pressione e alla temperatura dell'acqua.
- Tutti i punti bassi del sistema devono essere dotati di rubinetti di scarico per consentire il drenaggio completo del circuito durante la manutenzione.
- Tutti i punti alti dell'impianto devono essere dotati di sfiati per l'aria. Gli sfiati devono essere situati in punti facilmente accessibili per la manutenzione. All'interno dell'unità è presente una valvola automatica di spurgo dell'aria. Verificare che la valvola di spurgo dell'aria non sia serrata in modo da consentire il rilascio automatico dell'aria presente nel circuito idraulico.

3.2 Controlli del volume d'acqua e della pre-pessione del vaso di espansione

I monoblocchi sono dotati di un vaso di espansione (8 l) con una pre-pessione predefinita di 1,5 bar. Per garantire il corretto funzionamento dell'unità, potrebbe essere necessario regolare la pre-pessione del vaso di espansione. Fare riferimento alla Tabella 3-3.1. Il volume totale dell'acqua nell'impianto deve essere di almeno 25 l (per le unità da 4/6/8kW, il volume minimo è 15 l) e non deve superare i limiti specificati nella Figura 3-3.1.

Tabella 3-3.1: Regolazione della pre-pessione del vaso di espansione

Differenza tra le altezze di installazione 1	Volume dell'acqua $\leq X l^2$	Volume dell'acqua $> X l^2$
≤ 12 m	Non è necessaria la regolazione della pre-pessione	<p>Azioni richieste:</p> <ul style="list-style-type: none"> • La pre-pessione deve essere diminuita; calcolare secondo "Calcolo della pre-pessione del vaso di espansione"3 • Controllare se il volume dell'acqua è minore del volume massimo consentito (fare riferimento alla Figura 3-3.1)
> 12 m	<p>Azioni richieste:</p> <ul style="list-style-type: none"> • La pre-pessione deve essere aumentata; calcolare secondo "Calcolo della pre-pessione del vaso di espansione"2 • Controllare se il volume dell'acqua è minore del volume massimo consentito (fare riferimento alla Figura 3-3.1) 	Vaso di espansione nell'unità esterna troppo piccolo per l'impianto. È necessario un vaso di espansione esterno (fornito in loco).

Note:

1. Il dislivello è quello tra il punto più alto del circuito idraulico e il vaso di espansione dell'unità esterna. A meno che l'unità non si trovi nel punto più alto dell'impianto, nel qual caso il dislivello di installazione è considerato pari a zero.

2. Per le unità monofase da 12~16 kW e trifase da 12~16 kW, questo valore è 72 l, mentre per le unità da 4~10 kW è 30 l.

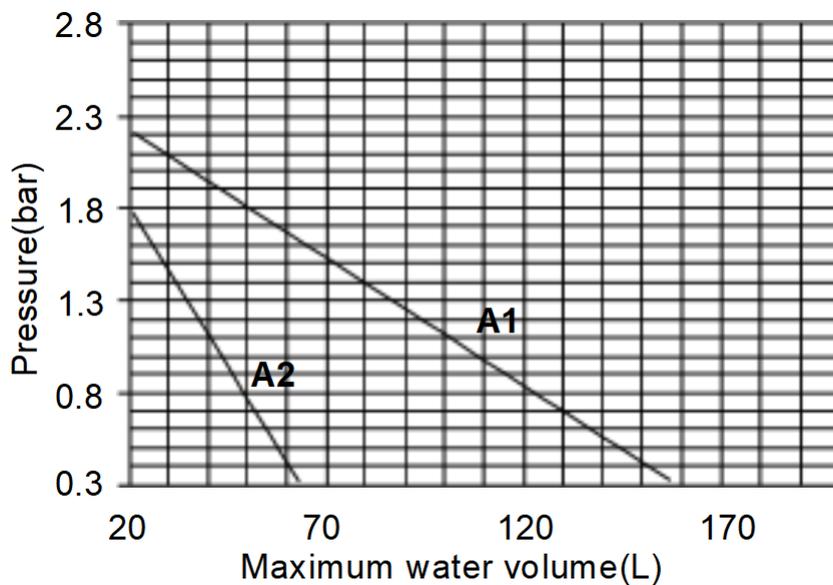
3. Calcolo della pre-pessione del vaso di espansione:

La pre-pessione (P_g) da impostare dipende dal dislivello massimo di installazione (H) ed è calcolata come $P_g(\text{bar}) = (H(\text{m})/10 + 0,3)$ bar

Per determinare il volume d'acqua massimo consentito nell'intero circuito, procedere come segue:

- Determinare la pre-pessione calcolata (P_g) per il volume d'acqua massimo corrispondente utilizzando la figura 3-3.1.

Figura 3-3.1: Volume d'acqua massimo



A1: Impianto senza glicole per unità monofase da 10~16 kW
e unità trifase da 12~16 kW

A2: Impianto senza glicole per unità da 4/6/8 kW

Verificare che il volume totale dell'acqua nell'intero circuito idraulico sia inferiore a questo valore. In caso contrario, il vaso di espansione all'interno dell'unità è troppo piccolo per l'impianto.

Esempio

L'unità (16 kW) è installata nel punto più alto del circuito idraulico. Il volume totale dell'acqua nel circuito idraulico è di 150 l.

Poiché 150 l sono più di 72 l, la pre-pessione deve essere diminuita, facendo riferimento alla Tabella 3-3:1.

La pre-pessione richiesta è: $P_g(\text{bar}) = (H(\text{m})/10 + 0,3)$ bar = $(0/10 + 0,3)$ bar = 0,3 bar

Il volume d'acqua massimo corrispondente, come indicato nella Figura 3-1.7, è di circa 160 l.

Poiché il volume totale dell'acqua (150 l) è inferiore al volume dell'acqua massimo (160 l), il vaso di espansione è sufficiente per l'impianto.

Quando è necessario modificare la pre-pessione predefinita del vaso di espansione (1,5 bar), seguire le linee guida:

Utilizzare solo azoto secco per regolare la pre-pessione del vaso di espansione.

Una regolazione inadeguata della pre-pessione del vaso di espansione può causare il malfunzionamento dell'impianto. La pre-pessione deve essere regolata solo da un installatore autorizzato.

Se il vaso di espansione dell'unità è troppo piccolo per l'impianto, è necessario un vaso di espansione aggiuntivo.

Calcolare la pre-pessione del vaso di espansione: $P_g(\text{bar}) = (H(\text{m})/10+0,3)$ bar Anche il vaso di espansione installato nell'unità deve regolare la pre-pessione.

Calcolare il volume necessario del vaso di espansione aggiuntivo: $V_1=0,0693*V_{\text{acqua}}/(2,5-P_g)-V_0$ V_{acqua} : il volume dell'acqua nell'impianto

V_0 : il volume del vaso di espansione di cui è dotata l'unità (per 5~9 kW, $V_0=2$ l; per 10~16 kW, $V_0=5$ l)

3.3 Collegamento dei circuiti idraulici

I collegamenti di ingresso e uscita dell'acqua devono essere eseguiti correttamente in conformità alle etichette apposte sull'unità esterna. L'ingresso di aria, umidità o polvere nel circuito idraulico può causare problemi.

Pertanto, quando si collega il circuito idraulico, tenere sempre presente quanto segue:

Utilizzare solo tubi puliti.

Tenere l'estremità del tubo verso il basso per rimuovere le bave.

Coprire l'estremità del tubo quando lo si inserisce attraverso una parete per evitare l'ingresso di polvere e sporcizia.

Utilizzare un buon sigillante per filetti per sigillare le connessioni. La sigillatura deve essere in grado di resistere alle pressioni e alle temperature dell'impianto.

Quando si utilizzano tubazioni metalliche non in rame, assicurarsi di isolare i due tipi di materiali l'uno dall'altro per evitare effetti di corrosione galvanica.

Poiché il rame è un materiale morbido, utilizzare strumenti adeguati per collegare il circuito idraulico. Utensili inadeguati possono danneggiare i tubi.

3.4 Protezione antigelo del circuito idraulico

La formazione di ghiaccio può causare danni al sistema idronico. Poiché l'unità esterna può essere esposta a temperature inferiori allo zero, è necessario prestare attenzione per evitare il congelamento dell'impianto. Tutte le parti interne del sistema idronico sono isolate per ridurre le perdite di calore. Anche le tubazioni sul campo devono essere isolate.

Il software integra funzioni speciali che utilizzano la pompa di calore per proteggere l'intero impianto dal congelamento.

Quando la temperatura del flusso d'acqua nell'impianto scende a un determinato valore, l'unità riscalda l'acqua, utilizzando la pompa di calore, il rubinetto elettrico o il riscaldatore di riserva. La funzione di protezione antigelo si disattiva solo quando la temperatura sale fino a un determinato valore.

In caso di interruzione dell'alimentazione elettrica, le funzioni di cui sopra non proteggeranno l'unità dal

congelamento.

Poiché un'interruzione dell'alimentazione elettrica potrebbe verificarsi quando l'unità non è sorvegliata, il fornitore raccomanda di utilizzare un liquido antigelo nell'impianto dell'acqua.

In base alla temperatura esterna minima prevista, assicurarsi che l'impianto dell'acqua sia riempito con una concentrazione di glicole conforme a quanto indicato nella tabella seguente. L'aggiunta di glicole all'impianto influisce sulle prestazioni dell'unità. Il fattore di correzione della capacità dell'unità, della portata e della perdita di carico del sistema è elencato nelle tabelle 3-3.2 e 3-3.3.

Tabella 3-3.2: Glicole etilenico

Concentrazione di glicole etilenico (%)	Coefficiente di modifica				Temperatura esterna minima (°C)
	Modifica della capacità di raffreddamento	Modifica della potenza in ingresso	Resistenza dell'acqua	Modifica della portata d'acqua	
0	1.000	1.000	1.000	1.000	0
10	0.984	0.998	1.118	1.019	-5
20	0.973	0.995	1.268	1.051	-15
30	0.965	0.992	1.482	1.092	-25

Tabella 3-3.3: Glicole propilenico

Concentrazione di glicole propilenico (%)	Coefficiente di modifica				Temperatura esterna minima (°C)
	Modifica della capacità di raffreddamento	Modifica della potenza in ingresso	Resistenza dell'acqua	Modifica della portata d'acqua	
0	1.000	1.000	1.000	1.000	0
10	0.976	0.996	1.071	1.000	-4
20	0.961	0.992	1.189	1.016	-12
30	0.948	0.988	1.380	1.034	-20

Il glicole non inibito diventa acido per effetto dell'ossigeno. Questo processo è accelerato dalla presenza di rame e a temperature più elevate. Il glicole acido non inibito attacca le superfici metalliche e forma cellule di corrosione galvanica che causano gravi danni all'impianto. È di estrema importanza:

- Che il trattamento dell'acqua sia eseguito correttamente da uno specialista qualificato.
- Selezionare un glicole con inibitori di corrosione per contrastare gli acidi formati dall'ossidazione dei glicoli.
- In caso di installazione con un serbatoio di acqua calda sanitaria, è consentito solo l'uso di glicole propilenico. In altri impianti è possibile utilizzare il glicole etilenico.
- Non utilizzare glicole per autoveicoli perché i loro inibitori di corrosione hanno una durata limitata e contengono silicati che potrebbero sporcare o intasare l'impianto;

- che le tubazioni zincate non siano utilizzate negli impianti con glicole in quanto potrebbero causare la precipitazione di alcuni elementi nel liquido.

3.4 Immagazzinaggio delle tubazioni in rame

3.4.1 Fornitura, conservazione e sigillatura delle tubazioni in rame

Nota per gli installatori:

- Assicurarsi che le tubazioni non si pieghino o si deformino durante la consegna o l'immagazzinaggio.
- Nei cantieri, conservare le tubazioni in un luogo dedicato.
- Per evitare la penetrazione di polvere o umidità, le tubazioni devono essere mantenute sigillate durante l'immagazzinaggio e fino al momento del collegamento. ▪ Se le tubazioni devono essere utilizzate entro un breve periodo, sigillare le aperture con tappi o nastro adesivo. Se le tubazioni tubazioni essere immagazzinate per un periodo di tempo prolungato, caricarle di azoto a 0,2-0,5 MPa e sigillare le aperture mediante brasatura.
- La conservazione direttamente sul terreno espone le tubazioni al rischio di penetrazione di polvere e acqua. È possibile utilizzare supporti in legno per sollevare le tubazioni da terra.
- Durante l'installazione, se devono essere inserite in un foro in una parete, assicurarsi di sigillare le tubazioni per evitare la penetrazione di polvere e/o calcinacci.
- Assicurarsi di sigillare le tubazioni installate all'esterno (soprattutto sono installate verticalmente) per evitare che la penetrazione della pioggia.

3.5 Flussostato dell'acqua

Nel flussostato potrebbe penetrare acqua. Poiché non può essere drenata, potrebbe congelare alle basse temperature.

Il flussostato deve pertanto essere rimosso e asciugato prima della reinstallazione nell'unità.

Ruotare in senso antiorario per rimuovere il flussostato dell'acqua.

Asciugare a fondo il flussostato dell'acqua.

3.6 Aggiunta di acqua

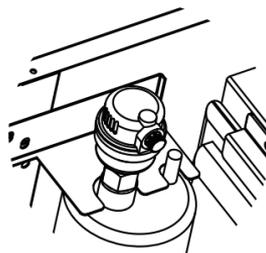
Collegare l'alimentazione dell'acqua alla valvola di riempimento e aprire la valvola.

Assicurarsi che la valvola di spurgo automatico dell'aria sia aperta (almeno 2 giri).

Fare riferimento alla Figura 3-3.3.

Raboccare l'acqua finché il manometro non indica una pressione di circa 2,0 bar. Eliminare il più possibile l'aria presente nel circuito utilizzando la valvola di spurgo dell'aria. La presenza di aria nel circuito idraulico potrebbe causare il malfunzionamento del riscaldatore elettrico di riserva.

Do not fasten the black plastic cover on the automatic air purge valve at the topside of the unit when the system is running. Open the automatic bleed valve, turn it counterclockwise for 1.5-2 turns to release air from the system.



3.7 Isolamento delle tubazioni dell'acqua

L'intero circuito idraulico, incluse tutte le tubazioni, deve essere isolato per evitare la formazione di condensa durante il funzionamento in modalità raffreddamento, la riduzione della capacità di riscaldamento e raffreddamento e prevenire il congelamento delle tubazioni esterne dell'acqua durante l'inverno. Il materiale isolante deve avere almeno un grado di resistenza al fuoco B1 e deve essere conforme a tutte le normative vigenti. Lo spessore dei materiali sigillanti deve essere di almeno 13 mm con una conducibilità termica di 0,039 W/mK per evitare il congelamento delle tubazioni esterne dell'acqua. Se la temperatura ambiente esterna è superiore a 30°C e l'umidità è superiore a RH 80%, lo spessore dei materiali sigillanti deve essere di almeno 20 mm per evitare la formazione di condensa sulla superficie della tenuta.

4 Cablaggi elettrici

4.1 Informazioni generali

Attenzione

- L'installazione e il cablaggio devono essere eseguiti da professionisti competenti e adeguatamente qualificati, certificati e accreditati e in conformità a tutte le normative vigenti.
- Gli impianti elettrici devono essere messi a terra in conformità a tutte le normative vigenti.
- Gli interruttori di sovracorrente e gli interruttori di corrente residua (interruttori di guasto verso terra) devono essere utilizzati in conformità a tutte le normative vigenti.
- Gli schemi di cablaggio illustrati nel presente manuale forniscono solo una guida generale per i collegamenti e non intendono includere né includono tutti i dettagli di installazioni specifiche.
- Le tubazioni dell'acqua, il cablaggio di alimentazione e il cablaggio di comunicazione sono generalmente instradati in parallelo. Tuttavia il cablaggio di comunicazione non deve essere collegato al cablaggio di alimentazione. Per evitare interferenze con i segnali, il cablaggio di alimentazione e quello di comunicazione non devono passare nella stessa canalina. Se l'alimentazione è inferiore a 10 A, è necessario mantenere una distanza di almeno 300 mm tra le canaline del cablaggio di alimentazione e di comunicazione; se l'alimentazione è compresa tra 10 A e 50 A, è necessario mantenere una distanza di almeno 500 mm.

4.2 Precauzioni

- Fissare i cavi in modo che non entrino in contatto con le tubazioni (soprattutto sul lato alta pressione).
- Fissare il cablaggio elettrico con fascette in modo che non entri in contatto con le tubazioni, in particolare sul lato alta pressione.
- Assicurarci di non esercitare alcuna pressione esterna sui connettori dei terminali.
- Quando si installa il dispositivo di interruzione del circuito di terra, assicurarsi che sia compatibile con l'inverter (resistente ai disturbi elettrici ad alta frequenza) per evitare l'apertura non necessaria del dispositivo di interruzione del circuito di terra.
- Questa unità è dotata di un inverter. L'installazione di un condensatore di rifasamento non solo riduce l'effetto di miglioramento del fattore di potenza, ma può anche causare un riscaldamento anomalo del condensatore a

causa delle onde ad alta frequenza. Non installare mai un condensatore di rifasamento per evitare incidenti.

4.3 Guida

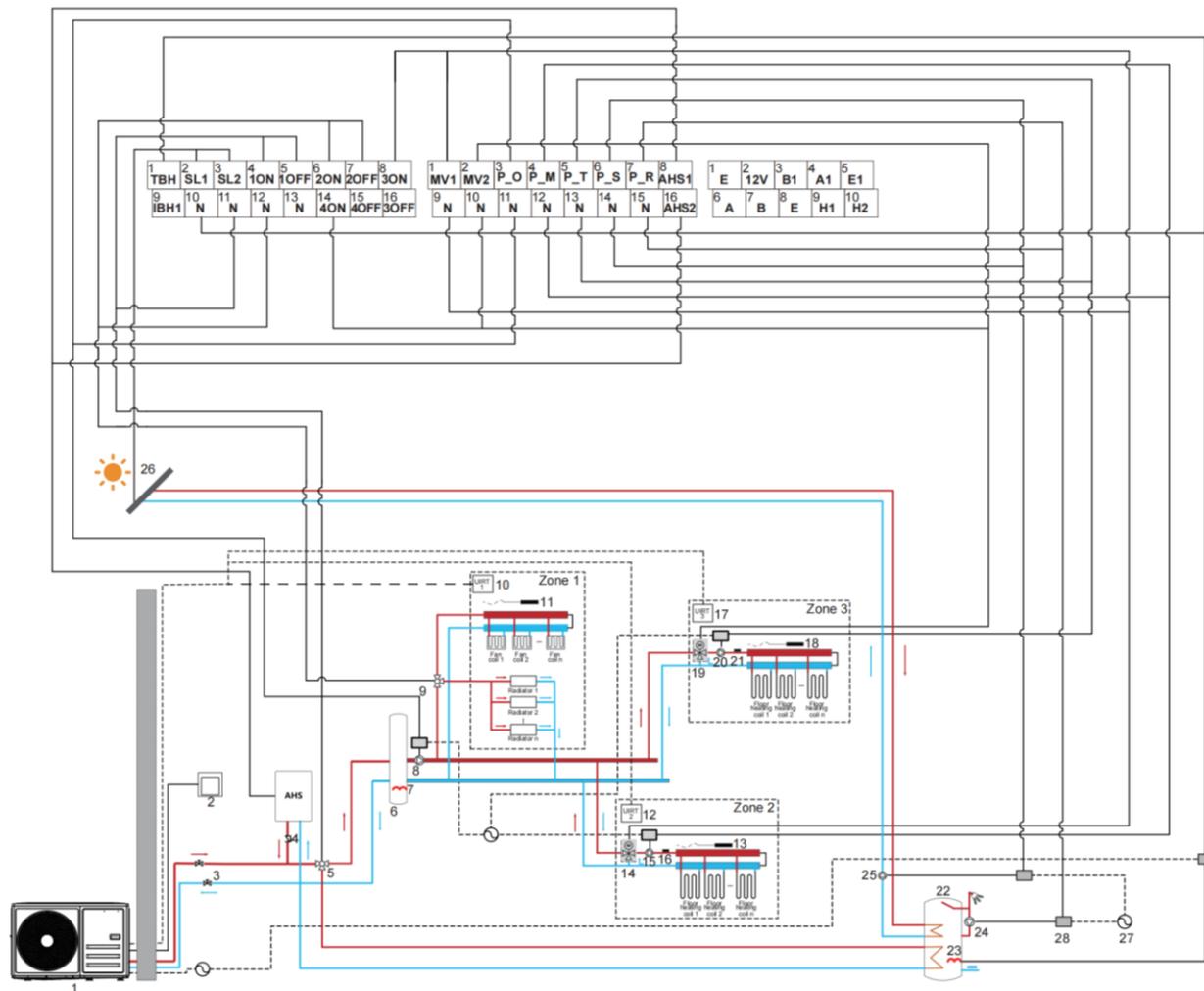
- La maggior parte del cablaggio di campo dell'unità deve essere effettuato sulla morsettiera all'interno della scatola degli interruttori. Per accedere alla morsettiera, rimuovere il pannello di servizio della scatola degli interruttori.
- Fissare tutti i cavi con fascette.
- Per il riscaldatore elettrico di riserva è necessario un circuito di alimentazione elettrica dedicato.
- Un impianto dotato di un serbatoio dell'acqua calda sanitaria (fornito in loco) richiede un circuito di alimentazione dedicato per il riscaldatore a immersione.

Fissare i cablaggi nell'ordine indicato di seguito:

- Posare il cablaggio elettrico in modo che il coperchio anteriore non si sollevi durante le operazioni di cablaggio e fissarlo saldamente.
- Per le operazioni di cablaggio, seguire gli schemi elettrici. Fare riferimento alle Figure da 2-4:1 a 2-4:5 della sezione 2, 4 "Schemi elettrici".
- Installare i cavi e fissare saldamente il coperchio in modo che si inserisca correttamente.

4.4 Panoramica dei cablaggi

Figura 3-5.1: Panoramica dei cablaggi



Codice	Assieme	Codice	Assieme
1	Monoblocco	15	Pompa zona 2 (P_M)
2	Comando cablato	16	Sensore di temperatura ingresso acqua riscaldamento a pavimento zona 2 (Tw_2)
3	Valvola di arresto	17	Termostato ambiente zona 3
4	Valvola di ritegno	18	Sensore di temperatura interna zona 3 (Tr_3)
5	Valvola a tre vie 1(SV1)	19	Valvola di miscelazione zona 3
6	Serbatoio tampone	20	Pompa zona 3 (P T)
7	Riscaldatore elettrico serbatoio tampone (IBH1)	21	Sensore di temperatura ingresso acqua riscaldamento a pavimento zona 3
8	Pompa zona 1 (P_O)	22	Serbatoio acqua calda sanitaria
9	Valvola a tre vie 2(SV2)	23	Riscaldamento elettrico serbatoio acqua (TBH)
10	Termostato ambiente zona 1	24	Pompa acqua calda sanitaria (P_R)
11	Sensore di temperatura interna zona 1 (Tr_1)	25	Pompa dell'acqua a energia solare (P_S)

12	Termostato ambiente zona 2	26	Pannelli solari
13	Sensore di temperatura interna zona 2 (Tr_2)	27	Alimentazione
14	Valvola di miscelazione zona 2	28	Contattore

a. Quando si utilizza la valvola di miscelazione nella zona 3, i terminali collegati sono in posizione 8(3ON), 14(4ON), 13(N).

b. La posizione dei terminali 1(MV1) e 8(3ON) controlla la rotazione in senso orario della valvola di miscelazione, 2(MV2) e 14(4ON) controllano la rotazione in senso antiorario della valvola di miscelazione.

c. I codici 7-34 sono forniti in loco.

Requisiti di cablaggio				
Elemento	Descrizione	Corrente	Numero richiesto di conduttori	Corrente di funzionamento massima
1	Cavo di segnale kit a energia solare	CA	2	200 mA
2	Cavo interfaccia utente	CA	5	200 mA
3	Cavo termostato ambiente	CA	2	200 mA(1)
4	Cavo di controllo pompa solare	CA	2	200 mA(1)
5	Cavo di controllo pompa di circolazione esterna	CA	2	200 mA(1)
6	Cavo di controllo pompa ACS	CA	2	200 mA(1)
7	SV2: Cavo di controllo valvola a tre vie	CA	3	200 mA(1)
8	SV1: Cavo di controllo valvola a tre vie	CA	3	200 mA(1)
9	Cavo di controllo riscaldatore booster	CA	2	200 mA(1)

(1) Sezione minima dei cavi AWG18 (0,75 mm²).

Se la corrente del carico è elevata, è necessario un contattore CA.

6 Pompa di circolazione interna

La pompa è controllata tramite un segnale digitale a modulazione di larghezza di impulso a bassa tensione: questo significa che la velocità di rotazione dipende dal segnale di ingresso. La velocità varia in funzione del profilo di ingresso. La relazione tra pressione statica esterna e portata d'acqua è descritta nella Parte 2, sezione 7 "Prestazioni idroniche".

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