

Model(s) : FDC140VNA / FDT140VH							
Outdoor side heat exchanger of air conditioner :	air						
Indoor side heat exchanger of air conditioner :	air						
Type :	vapour compression						
if applicable :	electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	13.6	kW	Seasonal space cooling energy efficiency $\eta_{s,c}$		243.2	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27°C/19°C(dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j=+35^\circ\text{C}$	Pdc	13.6	kW	$T_j=+35^\circ\text{C}$	EERd or GUEc,bin / AEFc,bin	267.0	%
$T_j=+30^\circ\text{C}$	Pdc	10.0	kW	$T_j=+30^\circ\text{C}$	EERd or GUEc,bin / AEFc,bin	450.0	%
$T_j=+25^\circ\text{C}$	Pdc	6.4	kW	$T_j=+25^\circ\text{C}$	EERd or GUEc,bin / AEFc,bin	706.0	%
$T_j=+20^\circ\text{C}$	Pdc	3.5	kW	$T_j=+20^\circ\text{C}$	EERd or GUEc,bin / AEFc,bin	1310.0	%
Degradation coefficient for air conditioners**	Cdc	0.25	-				
Power consumption in other than 'active mode'							
Off mode	P _{OFF}	0.008	kW	Crankcase heater mode	P _{CK}	0.008	kW
Thermostat-off mode	P _{TO}	0.020	kW	Standby mode	P _{SB}	0.008	kW
Other items				For air-to-air air conditioner: air flow-rate,outdoor measured			
Capacity control		variable				4500	m ³ /h
Sound power level, outdoor	L _{WA}	73.0	dB				
If engine driven: Emissions of nitrogen oxides	NO _x ***	-	mg/kWh fuel input GCV				
GWP of the refrigerant		2088	kg CO _{2eq} (100years)				

Contact details Mitsubishi heavy industries thermal systems,LTD

** If Cdc is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.

*** from 26 September 2018

Where information relates to multi-split air conditioners,the test result and performance data be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information to identify the model(s) to which the information relates : FDC140VNA / FDT140VH

Outdoor side heat exchanger of heat pump : air

Indoor side heat exchanger of heat pump : air

Indication if the heater is equipped with a supplementary heater : No

if applicable : electric motor

Parameters shall be declared for the average heating season , parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	15.5	kW	Seasonal space heating energy efficiency ηs,h		168.0	%
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj=-7°C	Pdh	9.3	kW	Tj=-7°C	COPd or GUEh,bin / AEFh,bin	228.0	%
Tj=+2°C	Pdh	5.7	kW	Tj=+2°C	COPd or GUEh,bin / AEFh,bin	433.0	%
Tj=+7°C	Pdh	3.7	kW	Tj=+7°C	COPd or GUEh,bin / AEFh,bin	583.0	%
Tj=+12°C	Pdh	2.6	kW	Tj=+12°C	COPd or GUEh,bin / AEFh,bin	688.0	%
Tbiv=bivalent temperature	Pdh	10.5	kW	Tbiv=bivalent temperature	COPd or GUEh,bin / AEFh,bin	268.0	%
TOL=operation limit	Pdh	7.9	kW	TOL=operation limit	COPd or GUEh,bin / AEFh,bin	230.0	%
For air-to-water heat pumps : Tj=-15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps:Tj=-15°C (if TOL < -20°C)	COPd or GUEh,bin / AEFh,bin	-	%
Bivalent temperature	Tbiv	-10.0	°C	For water-to-air heat pumps:Operation limit T _{ai} temperature		-	°C
Degradation coefficient heat pumps**	Cdh	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater back-up heating capacity	elbu	-	kW
Off mode	P _{OFF}	0.008	kW	Type of energy input Standby mode	P _{SB}	0.008	kW
Thermostat-off mode	P _{TO}	0.035	kW				
Crankcase heater mode	P _{CK}	0.008	kW				
Other items				For air-to-air heat pumps: air flow-rate,outdoor measured		4380	m3/h
Capacity control		variable		For water-/brine-to-air heat pumps : Rated brine or water flow-rate, outdoor side heat exchanger		-	m3/h
Sound power level, outdoor measured	L _{WA}	73.0	dB				
Emissions of nitrogen oxides(if applicable)	NOx ***	-	mg/kWh fuel input GCV				
GWP of the refrigerant		2088	kg CO _{2eq} (100years)				

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** If Cdh is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.

*** from 26 September 2018

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