

Model(s) : FDC140VSA-W / FDE140VH
 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	$\eta_{s,c}$	227.6	%
Declared cooling capacity for part load at given outdoor temperatures Tj 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 Tj			
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	269.0	%
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	420.0	%
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	682.0	%
Tj=+20°C	Pdc	3.1	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	1034.0	%
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}	0.005	kW
Thermostat-off mode	P _{TO}	0.030	kW	Standby mode	P _{SB}	0.008	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow-rate,outdoor measured		4,500	m3/h
Sound power level, outdoor	L _{WA}	72.0	dB				
If engine driven: Emissions of nitrogen oxides	NOx ***	-	mg/kWh fuel input GCV				
GWP of the refrigerant		675	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-spilt 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 :				FDC140VSA-W / FDE140VH			
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	$\eta_{s,h}$	166.6	%
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	9.2	kW	Tj=-7°C	COPd or GUEh,bin / AEFh,t	290.0	%
Tj=+2°C	Pdh	5.6	kW	Tj=+2°C	COPd or GUEh,bin / AEFh,t	410.0	%
Tj=+7°C	Pdh	3.6	kW	Tj=+7°C	COPd or GUEh,bin / AEFh,t	540.0	%
Tj=+12°C	Pdh	3.0	kW	Tj=+12°C	COPd or GUEh,bin / AEFh,t	675.0	%
Tbiv=bivalent temperature	Pdh	10.5	kW	Tbiv=bivalent temperature	COPd or GUEh,bin / AEFh,t	250.0	%
TOL=operation limit	Pdh	7.9	kW	TOL=operation limit	COPd or GUEh,bin / AEFh,t	210.0	%
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,t	-	%
Bivalent temperature	Tbiv	-10.0	°C	For water-to-air heat pumps:Operation limit Toi temperature		-	°C
Degradation coefficient heat pumps**	Cdh	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater back-up heating capacity			
Off mode	P _{OFF}	0.008	kW		elbu	-	kW
Thermostat-off mode	P _{TO}	0.045	kW	Type of energy input Standby mode	P _{SB}	0.008	kW
Crankcase heater mode	P _{CK}	0.005	kW				
Other items				For air-to-air heat pumps: air flow-rate,outdoor measured			
Capacity control		variable				4,380	m3/h
Sound power level, outdoor measured	L _{WA}	73.0	dB	For water-/brine-to-air heat pumps : Rated brine or water fiow-rate, outdoor side heat exchanger		-	m3/h
Emissions of nitrogen oxides(if applicable)	NOx ***	-	mg/kWh fuel input GCV				
GWP of the refrigerant		675	kg CO _{2eq} (100years)				
Contact details	Mitsubishi heavy industries thermal systems,LTD						
** If Cdh 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-spilt 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.							