

Model(s) : FDC140VNA-W / FDUM140VH							
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 ηs,c		208.8	%
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	265.0	%
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	390.0	%
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	680.0	%
Tj=+20°C	Pdc	3.2	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	900.0	%
Degradation coefficient for air conditioners**	Cdc	0.25	-				
Power consumption in other than 'active mode'							
Off mode	P <sub>OFF</sub>	0.008	kW	Crankcase heater mode	P <sub>CK</sub>	0.008	kW
Thermostat-off mode	P <sub>TO</sub>	0.090	kW	Standby mode	P <sub>SB</sub>	0.008	kW
Other items				For air-to-air air conditioner: air flow-rate,outdoor measured			
Capacity control		variable				4,500	m <sup>3</sup> /h
Sound power level, outdoor	L <sub>WA</sub>	72.0	dB				
If engine driven: Emissions of nitrogen oxides	NOx ***	-	mg/kWh fuel input GCV				
GWP of the refrigerant		675	kg CO <sub>2eq</sub> (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-W / FDUM140VH			
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 $\eta_{s,h}$		157.4	%
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	295.0	%
Tj=+2°C	Pdh	5.6	kW	Tj=+2°C	COPd or GUEh,bin / AEFh,bin	385.0	%
Tj=+7°C	Pdh	3.6	kW	Tj=+7°C	COPd or GUEh,bin / AEFh,bin	500.0	%
Tj=+12°C	Pdh	2.7	kW	Tj=+12°C	COPd or GUEh,bin / AEFh,bin	596.0	%
T <sub>biv</sub> =bivalent temperature	Pdh	10.5	kW	T <sub>biv</sub> =bivalent temperature	COPd or GUEh,bin / AEFh,bin	270.0	%
T <sub>OL</sub> =operation limit	Pdh	7.9	kW	T <sub>OL</sub> =operation limit	COPd or GUEh,bin / AEFh,bin	220.0	%
For air-to-water heat pumps : Tj=-15°C (if T <sub>OL</sub> <-20°C)	Pdh	—	kW	For air-to-water heat pumps: Tj=-15°C (if T <sub>OL</sub> <-20°C)	COPd or GUEh,bin / AEFh,bin	—	%
Bivalent temperature	T <sub>biv</sub>	-10.0	°C	For water-to-air heat pumps: Operation limit T <sub>ol</sub> temperature		—	°C
Degradation coefficient heat pumps**	C <sub>dh</sub>	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater back-up heating capacity			
Off mode	P <sub>OFF</sub>	0.008	kW		elbu	—	kW
Thermostat-off mode	P <sub>TO</sub>	0.100	kW	Type of energy input Standby mode	P <sub>SB</sub>	0.008	kW
Crankcase heater mode	P <sub>CK</sub>	0.008	kW				
Other items				For air-to-air heat pumps: air flow-rate,outdoor measured			
Capacity control		variable				4,380	m <sup>3</sup> /h
Sound power level, outdoor measured	L <sub>WA</sub>	73.0	dB	For water-/brine-to-air heat pumps : Rated brine or water flow-rate, outdoor side heat exchanger		—	m <sup>3</sup> /h
Emissions of nitrogen oxides(if applicable)	NOx <sup>***</sup>	—	mg/kWh fuel input GCV				
GWP of the refrigerant		675	kg CO <sub>2eq</sub> (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-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.							