Subtype FDCM140VNX-W

Certificate Holder	Mitsubishi Heavy Industries Air Conditioning Europe
Address	5 The Square
ZIP	UB11 1ET
City	Uxbridge, Middlesex
Country	GB
Certification Body	RISE CERT
Subtype title	FDCM140VNX-W
Registration number	012-C700400
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.9 kg
Certification Date	03.06.2025
Testing basis	EN 14511:2022, EN 14825:2022, EN 12102:2022
Testing laboratory	KIWA, NL

Model FDCM140VNX-W	
Model name	FDCM140VNX-W
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating	Low temperature	Medium temperature
Heat output	14.50 kW	16.00 kW
El input	4.26 kW	6.40 kW
COP	3.40	2.50

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	181 %	133 %
Prated	12.00 kW	12.00 kW
SCOP	4.60	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.40 kW	10.50 kW
COP Tj = -7°C	2.90	2.06
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = +2°C	6.70 kW	6.30 kW
COP Tj = +2°C	4.29	3.18
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	4.20 kW	4.10 kW

COP Tj = +7°C	6.37	4.83
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	4.60 kW	4.60 kW
COP Tj = 12°C	8.82	7.42
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	10.40 kW	10.50 kW
COP Tj = Tbiv	2.90	2.06
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.70 kW	9.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	1.79
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.970
WTOL	60 °C	60 °C
Poff	28 W	28 W
PTO	31 W	31 W
PSB	31 W	31 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.70 kW
Annual energy consumption Qhe	6175 kWh	8321 kWh