Subtype FDCM100VNX-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	FDCM100VNX-W
Registration number	012-C700399
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2 kg
Certification Date	03.06.2025
Testing basis	EN 14511:2022, EN 14825:2022, EN 16147:2017+A1:2022, EN 12102:2022
Testing laboratory	KIWA, NL

Model FDCM100VNX-W	
Model name	FDCM100VNX-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	10.00 kW	10.00 kW
El input	2.90 kW	3.39 kW
COP	3.45	2.95

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	194 %	139 %
Prated	8.00 kW	8.00 kW
SCOP	4.93	3.55
Tbiv	-8 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.60 kW	6.90 kW
COP Tj = -7°C	2.85	2.00
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = +2°C	4.20 kW	4.40 kW
COP Tj = +2°C	4.85	3.45
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	3.50 kW	3.30 kW

COP Tj = +7°C	6.95	4.82
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	4.00 kW	4.00 kW
COP Tj = 12°C	8.10	6.95
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	7.00 kW	6.90 kW
COP Tj = Tbiv	2.50	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.90 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.00	1.40
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	2.10 kW	2.60 kW
Annual energy consumption Qhe	3815 kWh	5539 kWh

Model FDCM100VNX-W + HMM100	
Model name	FDCM100VNX-W + HMM100
Application	Heating + DHW + low temp
Units	Indoor, 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 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	87 %
COP	2.14
Heating up time	01:00 h:min
Standby power input	27.0 W
Reference hot water temperature	49.0 °C
Mixed water at 40°C	238 l

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	10.00 kW	10.00 kW
El input	2.90 kW	3.39 kW
COP	3.45	2.95

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	194 %	139 %

Prated	8.00 kW	8.00 kW
SCOP	4.93	3.55
Tbiv	-8 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.60 kW	6.90 kW
COP Tj = -7°C	2.85	2.00
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = +2°C	4.20 kW	4.40 kW
COP Tj = +2°C	4.85	3.45
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	3.50 kW	3.30 kW
COP Tj = +7°C	6.95	4.82
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	4.00 kW	4.00 kW
COP Tj = 12°C	8.10	6.95
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	7.00 kW	6.90 kW
COP Tj = Tbiv	2.50	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.90 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.00	1.40
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	2.10 kW	2.60 kW
Annual energy consumption Qhe	3815 kWh	5539 kWh