Subtype FDCW100VNX-A

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	FDCW100VNX-A
Registration number	012-C700398
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	3.08 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 FDCW100VNX-A + HSB100-W	
Model name	FDCW100VNX-A + HSB100-W
Application	Heating (medium 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 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	9.20 kW	9.00 kW
El input	2.15 kW	2.65 kW
COP	4.28	3.39

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	165 %	126 %
Prated	8.50 kW	10.00 kW
SCOP	4.20	3.23
Tbiv	-8 °C	-4 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.50 kW	8.80 kW
COP Tj = -7°C	2.93	1.96
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	4.60 kW	5.40 kW
COP Tj = +2°C	4.11	3.22
Cdh Tj = +2 °C	0.970	0.980

Pdh Tj = +7°C	3.60 kW	3.50 kW
COP Tj = +7°C	5.17	4.47
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	4.10 kW	3.80 kW
COP Tj = 12°C	6.13	5.45
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	7.80 kW	7.70 kW
COP Tj = Tbiv	2.93	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.50 kW	6.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.94
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.980
WTOL	58 °C	58 °C
Poff	2 W	2 W
PTO	20 W	14 W
PSB	15 W	15 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	3.30 kW
Annual energy consumption Qhe	4181 kWh	6391 kWh

Model FDCW100VNX-A + HMS100-W	
Model name	FDCW100VNX-A + HMS100-W
Application	Heating (medium 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 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	9.20 kW	9.00 kW
El input	2.15 kW	2.65 kW
COP	4.28	3.39

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	165 %	126 %
Prated	8.50 kW	10.00 kW
SCOP	4.20	3.23
Tbiv	-8 °C	-4 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.50 kW	8.80 kW
COP Tj = -7°C	2.93	1.96
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	4.60 kW	5.40 kW
COP Tj = +2°C	4.11	3.22
Cdh Tj = +2 °C	0.970	0.980

Pdh Tj = +7°C	3.60 kW	3.50 kW
COP Tj = +7°C	5.17	4.47
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	4.10 kW	3.80 kW
COP Tj = 12°C	6.13	5.45
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	7.80 kW	7.70 kW
COP Tj = Tbiv	2.93	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.50 kW	6.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.94
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.980
WTOL	58 °C	58 °C
Poff	2 W	2 W
PTO	20 W	14 W
PSB	15 W	15 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	3.30 kW
Annual energy consumption Qhe	4181 kWh	6391 kWh

Model FDCW100VNX-A + HMA100-S

Model name	FDCW100VNX-A + HMA100-S
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	98 %
COP	2.32
Heating up time	1:00 h:min
Standby power input	85.0 W
Reference hot water temperature	51.0 °C
Mixed water at 40°C	230 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	9.20 kW	9.00 kW
El input	2.15 kW	2.65 kW
COP	4.28	3.39

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	165 %	126 %

Prated	8.50 kW	10.00 kW
SCOP	4.20	3.23
Tbiv	-8 °C	-4 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.50 kW	8.80 kW
COP Tj = -7°C	2.93	1.96
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	4.60 kW	5.40 kW
COP Tj = +2°C	4.11	3.22
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	3.60 kW	3.50 kW
COP Tj = +7°C	5.17	4.47
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WTOL	58 °C	58 °C
Poff	2 W	2 W
PTO	20 W	14 W
PSB	15 W	15 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	3.30 kW
Annual energy consumption Qhe	4181 kWh	6391 kWh

Model FDCW100VNX-A + HMA100-W

Model name	FDCW100VNX-A + HMA100-W
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	98 %
COP	2.32
Heating up time	1:00 h:min
Standby power input	85.0 W
Reference hot water temperature	51.0 °C
Mixed water at 40°C	230 l

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