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Summary of	FDCW100VNX-A	Reg. No.	012-SC0826-18
Certificate Holder			
Name	Mitsubishi Heavy Industries Air Conditioning Europe		
Address	5 The Square	Zip	UB11 1ET
City	Uxbridge, Middlesex	Country	United Kingdom
Certification Body	RISE CERT		
Subtype title	FDCW100VNX-A		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	2.9 kg		
Certification Date	21.01.2019		

Model: FDCW100VNX-A + HSB100

Configure model	
Model name	FDCW100VNX-A + HSB100
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	9.20 kW	9.00 kW
El input	2.15 kW	3.39 kW
COP	4.28	2.65

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

Average Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
η_s	165 %	126 %
Prated	8.50 kW	10.00 kW
SCOP	4.13	3.15
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	0.97	0.98
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

Configure model	
Model name	FDCW100VNX-A + HMA100-S
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	9.20 kW	9.00 kW
El input	2.15 kW	3.39 kW
COP	4.28	2.65

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

Average Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
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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
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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

Domestic Hot Water (DHW)

Average Climate

EN 16147

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