This information was generated by the HP KEYMARK database on 22 Jun 2022

Login

Summary of	FDCW71VNX-A	Reg. No.	012-SC0825-18
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	FDCW71VNX-A		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	2.55 kg		
Certification Date	21.01.2019		

Model: FDCW71VNX-A + HSB100

Configure model	
Model name	FDCW71VNX-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	8.30 kW	7.10 kW
El input	2.03 kW	2.71 kW
COP	4.08	2.62

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	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	149 %	119 %
Prated	7.10 kW	7.00 kW
SCOP	3.73	2.98
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.30 kW	6.20 kW
COP Tj = -7°C	2.61	1.93
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.80 kW	3.80 kW
COP Tj = +2°C	3.60	3.00
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.50 kW	2.40 kW
COP Tj = +7°C	4.92	3.90
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	2.30 kW	2.30 kW
COP Tj = 12°C	6.42	5.23
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.10 kW	6.20 kW
COP Tj = Tbiv	2.34	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.10 kW	5.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.34	1.69
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.96	0.97
WTOL	58 °C	58 °C
Poff	2 W	2 W
PTO	15 W	10 W
PSB	15 W	15 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.70 kW
Annual energy consumption Qhe	3856 kWh	4751 kWh

Model: FDCW71VNX-A + HMA100-S

Configure model	
Model name	FDCW71VNX-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	8.30 kW	7.10 kW
El input	2.03 kW	2.71 kW
COP	4.08	2.62

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	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	149 %	119 %
Prated	7.10 kW	7.00 kW
SCOP	3.73	2.98
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.30 kW	6.20 kW
COP Tj = -7°C	2.61	1.93
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.80 kW	3.80 kW
COP Tj = +2°C	3.60	3.00
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.50 kW	2.40 kW
COP Tj = +7°C	4.92	3.90
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	2.30 kW	2.30 kW
COP Tj = 12°C	6.42	5.23
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.10 kW	6.20 kW
COP Tj = Tbiv	2.34	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.10 kW	5.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.34	1.69
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.96	0.97
WTOL	58 °C	58 °C
Poff	2 W	2 W
PTO	15 W	10 W
PSB	15 W	15 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.70 kW
Annual energy consumption Qhe	3856 kWh	4751 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	99 %
COP	2.34
Heating up time	1:20 h:min
Standby power input	85.0 W
Reference hot water temperature	51.0 °C
Mixed water at 40°C	230 l