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Summary of	FDCW140VNX-A	Reg. No.	012-SC0827-18
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	FDCW140VNX-A		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	4 kg		

Model: FDCW140VNX-A + HSB140

Configure model	
Model name	FDCW140VNX-A + HSB140
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 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	7.03 kW	6.38 kW
El input	1.45 kW	2.04 kW
COP	4.85	3.13

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	176 %	134 %
Prated	14.50 kW	14.00 kW
SCOP	4.47	3.42
Tbiv	-8 °C	-8 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.90 kW	12.50 kW
COP Tj = -7°C	2.96	2.01
Pdh Tj = +2°C	7.90 kW	7.60 kW
COP Tj = +2°C	4.37	3.29
Pdh Tj = +7°C	5.10 kW	4.90 kW
COP Tj = +7°C	5.58	4.68
Pdh Tj = 12°C	6.40 kW	6.80 kW
COP Tj = 12°C	6.99	6.51
Pdh Tj = Tbiv	13.40 kW	12.70 kW

COP Tj = Tbiv	2.86	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.50 kW	11.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.97	0.98
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	25 W	16 W
PSB	15 W	15 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.00 kW	3.00 kW
Annual energy consumption Qhe	6702 kWh	8431 kWh