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Summary of	FDCW60VNX-A	Reg. No.	012-SC0824-18
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	FDCW60VNX-A		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.5 kg		
Certification Date	21.01.2019		

## Model: FDCW60VNX-A + HMA60-S

Configure model	
Model name	FDCW60VNX-A + HMA60-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	4.80 kW	3.84 kW
El input	0.93 kW	1.37 kW
COP	5.14	2.81

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

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### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	188 %	138 %
Prated	4.80 kW	5.30 kW
SCOP	4.70	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.30 kW	4.70 kW
COP Tj = -7°C	2.60	1.88
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	2.60 kW	2.80 kW
COP Tj = +2°C	4.84	3.59
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	1.70 kW	1.80 kW
COP Tj = +7°C	6.91	4.72
Cdh Tj = +7 °C	0.980	0.990

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Pdh Tj = 12°C	2.70 kW	2.70 kW
COP Tj = 12°C	7.72	6.47
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	4.30 kW	4.70 kW
COP Tj = Tbiv	2.60	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.20 kW	4.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.24	1.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	58 °C	58 °C
Poff	7 W	7 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.60 kW	1.20 kW
Annual energy consumption Qhe	2089 kWh	3091 kWh

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	91 %
COP	2.22
Heating up time	01:40 h:min
Standby power input	45.0 W
Reference hot water temperature	51.0 °C
Mixed water at 40°C	230 l

## Model: FDCW60VNX-A + HSB60-W

Configure model	
Model name	FDCW60VNX-A + HSB60-W
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

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Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

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