

Subtype AA packaged 11

Certificate Holder	Mitsubishi Electric Air Conditioning Systems Europe LTD
Address	Nettlehill Road, Houston Industrial Estate
ZIP	EH54 5EQ
City	Livingston
Country	GB
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)
Subtype title	AA packaged 11
Registration number	037-0002-18
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	3.3 kg
Certification Date	09.10.2018
Testing basis	HP Keymark scheme rules rev. no. 4

Model PUHZ-W112VAA

Model name	PUHZ-W112VAA
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.47 kW	4.15 kW
COP	4.54	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	174 %	135 %
Prated	10.00 kW	10.00 kW
SCOP	4.41	3.44
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.90 kW	9.00 kW
COP Tj = -7°C	3.17	1.99
Cdh Tj = -7 °C	0.995	0.997
Pdh Tj = +2°C	5.40 kW	5.70 kW
COP Tj = +2°C	4.23	3.30
Cdh Tj = +2 °C	0.988	0.991
Pdh Tj = +7°C	3.60 kW	4.70 kW
COP Tj = +7°C	5.33	4.86
Cdh Tj = +7 °C	0.978	0.984

Pdh Tj = 12°C	4.30 kW	4.10 kW
COP Tj = 12°C	7.66	6.35
Cdh Tj = +12 °C	0.973	0.977
Pdh Tj = Tbiv	8.90 kW	9.00 kW
COP Tj = Tbiv	3.17	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.35 kW	8.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	1.87
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.970
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.65 kW	1.58 kW
Annual energy consumption Qhe	4681 kWh	5998 kWh

Model PUHZ-W112YAA

Model name	PUHZ-W112YAA
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.47 kW	4.15 kW
COP	4.54	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	173 %	134 %
Prated	10.00 kW	10.00 kW
SCOP	4.40	3.44
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.90 kW	9.00 kW
COP Tj = -7°C	3.17	1.99
Cdh Tj = -7 °C	0.992	0.995
Pdh Tj = +2°C	5.40 kW	5.70 kW
COP Tj = +2°C	4.23	3.29
Cdh Tj = +2 °C	0.983	0.987
Pdh Tj = +7°C	3.60 kW	4.70 kW
COP Tj = +7°C	5.31	4.88
Cdh Tj = +7 °C	0.968	0.977

Pdh Tj = 12°C	4.30 kW	4.10 kW
COP Tj = 12°C	7.66	6.35
Cdh Tj = +12 °C	0.961	0.966
Pdh Tj = Tbiv	8.90 kW	9.00 kW
COP Tj = Tbiv	3.17	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.35 kW	8.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	1.87
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.950	0.960
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.65 kW	1.58 kW
Annual energy consumption Qhe	4693 kWh	6012 kWh