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Summary of	AA packaged 11	Reg. No.	037-0002-18
Certificate Holder			
Name	Mitsubishi Electric Air Conditioning Systems Europe LTD		
Address	Nettlehill Road, Houston Industrial Estate	Zip	EH54 5EQ
City	Livingston	Country	United Kingdom
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)		
Name of testing laboratory	IGE Institut für GebäudeEnergetik		
Subtype title	AA packaged 11		
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

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	1.93 m³/h	1.20 m³/h

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

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	170 %	133 %
Prated	10.00 kW	10.00 kW
SCOP	4.34	3.40
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
Pdh Tj = +2°C	5.40 kW	5.70 kW
COP Tj = +2°C	4.24	3.30
Pdh Tj = +7°C	3.60 kW	4.70 kW
COP Tj = +7°C	5.31	4.86
Pdh Tj = 12°C	4.30 kW	4.10 kW
COP Tj = 12°C	7.66	6.35
Pdh Tj = Tbiv	8.90 kW	9.00 kW
COP Tj = Tbiv	3.17	1.99

Pdh Tj = TOL	6.50 kW	6.50 kW
COP Tj = TOL	1.38	1.45
Cdh	0.97	0.97
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	1.70 kW	1.60 kW
Annual energy consumption Qhe	4636 kWh	5955 kWh

Model: PUHZ-W112YAA

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	1.93 m³/h	1.20 m³/h

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

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	169 %	132 %
Prated	10.00 kW	10.00 kW
SCOP	4.29	3.37
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
Pdh Tj = +2°C	5.40 kW	5.70 kW
COP Tj = +2°C	4.24	3.30
Pdh Tj = +7°C	3.60 kW	4.70 kW
COP Tj = +7°C	5.31	4.86
Pdh Tj = 12°C	4.30 kW	4.10 kW
COP Tj = 12°C	7.66	6.35
Pdh Tj = Tbiv	8.90 kW	9.00 kW
COP Tj = Tbiv	3.17	1.99

Pdh Tj = TOL	6.50 kW	6.50 kW
COP Tj = TOL	1.38	1.45
Cdh	0.95	0.96
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	1.70 kW	1.60 kW
Annual energy consumption Qhe	4644 kWh	5968 kWh