

English

Single View for Model

SUBTYPE

Ecodan Power Inverter (TR) 12 + 300F AA

Heat Pump Type: Outdoor Air/Water

APPLICANT

Mitsubishi Electric Air Conditioning Systems Europe LTD
 Nettlehill Road, Houston Industrial Estate
 EH54 5EQ Livingston
 United Kingdom

CERTIFICATION BODY

SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)
 Hudcova 424/56b
 621 00 Brno
 Czech Republic

PUZ-SWM120YAA + ERST30F-*M*E

Configure model

Model name	PUZ-SWM120YAA + ERST30F-*M*E
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

General Data

Power supply	3x400V 50Hz
--------------	-------------

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	10 kW	7 kW
El input	2.05 kW	2.59 kW
COP	4.87	2.7

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

EN 14511-2			
	+7°C/+12°C	+18°C/+23°C	
El input	3.85 kW	2.67 kW	
Cooling capacity	11	12	
EER	2.86	4.5	
EN 14825			
	+7°C/+12°C	+18°C/+23°C	
Pdesignc	11 kW	12 kW	
SEER	4.1	5.64	
Pdc Tj = 35°C	11 kW	12 kW	
EER Tj = 35°C	2.86	4.5	
Cdc Tj = 35 °C	0.994	0.992	
Pdc Tj = 30°C	8.11 kW	8.84 kW	
EER Tj = 30°C	3.99	5.75	
Cdc Tj = 30 °C	0.989	0.986	
Pdc Tj = 25°C	5.21 kW	5.68 kW	
EER Tj = 25°C	4.59	5.99	
Cdc Tj = 25 °C	0.981	0.977	
Pdc Tj = 20°C	2.5 kW	3.5 kW	
EER Tj = 20°C	4.45	6.3	
Cdc Tj = 20 °C	0.961	0.96	
Poff	22 W	22 W	
PTO	22 W	22 W	
PSB	22 W	22 W	
PCK	0 W	0 W	
Annual energy consumption Qce	1610 kWh	1277 kWh	

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	58 dB(A)	58 dB(A)	
EN 14825			
	Low temperature	Medium temperature	
η_s	179 %	132 %	

Prated	12.1 kW	12.1 kW
SCOP	4.55	3.39
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	10.7 kW
COP Tj = -7°C	2.75	1.87
Cdh Tj = -7 °C	0.994	0.996
Pdh Tj = +2°C	6.5 kW	6.5 kW
COP Tj = +2°C	4.54	3.35
Cdh Tj = +2 °C	0.985	0.989
Pdh Tj = +7°C	5.2 kW	5 kW
COP Tj = +7°C	6	4.65
Cdh Tj = +7 °C	0.975	0.98
Pdh Tj = 12°C	4 kW	3.8 kW
COP Tj = 12°C	7	6.2
Cdh Tj = +12 °C	0.962	0.964
Pdh Tj = Tbiv	10.7 kW	10.7 kW
COP Tj = Tbiv	2.75	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.7 kW	10.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.4	1.55
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.997
WTOL	70 °C	70 °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	1.4 kW	1.4 kW
Annual energy consumption Qhe	5495 kWh	7381 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	XL
Efficiency η_{DHW}	130 %
COP	3.14

Heating up time	2:42 h:min
Standby power input	44.2 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

[Back](#)

[Show Subtype](#)