

English

Single View for Model

SUBTYPE

Ecodan Power Inverter (TR) 6/8/10 + 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-SWM100VAA + ERST30F-*M*E

Configure model

Model name	PUZ-SWM100VAA + 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	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8 kW	7 kW
El input	1.59 kW	2.59 kW
COP	5.02	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 kW	2.22 kW	
Cooling capacity	9	10	
EER	3	4.5	
EN 14825			
	+7°C/+12°C	+18°C/+23°C	
Pdesignc	9 kW	10 kW	
SEER	3.98	5.73	
Pdc Tj = 35°C	9 kW	10 kW	
EER Tj = 35°C	3	4.5	
Cdc Tj = 35 °C	0.995	0.993	
Pdc Tj = 30°C	6.63 kW	7.37 kW	
EER Tj = 30°C	3.82	5.68	
Cdc Tj = 30 °C	0.991	0.988	
Pdc Tj = 25°C	4.26 kW	4.74 kW	
EER Tj = 25°C	4.43	6.05	
Cdc Tj = 25 °C	0.984	0.981	
Pdc Tj = 20°C	2.5 kW	3.5 kW	
EER Tj = 20°C	4.23	6.55	
Cdc Tj = 20 °C	0.975	0.972	
Poff	15 W	15 W	
PTO	15 W	15 W	
PSB	15 W	15 W	
PCK	0 W	0 W	
Annual energy consumption Qce	1357 kWh	1047 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	181 %	134 %	

Prated	10 kW	10 kW
SCOP	4.6	3.42
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.8 kW	8.8 kW
COP Tj = -7°C	3.05	2.15
Cdh Tj = -7 °C	0.995	0.996
Pdh Tj = +2°C	5.4 kW	5.4 kW
COP Tj = +2°C	4.61	3.35
Cdh Tj = +2 °C	0.987	0.991
Pdh Tj = +7°C	5.2 kW	4.8 kW
COP Tj = +7°C	5.7	4.39
Cdh Tj = +7 °C	0.984	0.986
Pdh Tj = 12°C	3.2 kW	2.9 kW
COP Tj = 12°C	6.61	5.99
Cdh Tj = +12 °C	0.969	0.969
Pdh Tj = Tbiv	8.8 kW	8.8 kW
COP Tj = Tbiv	3.05	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.4	1.7
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.997
WTOL	70 °C	70 °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 kW	1.5 kW
Annual energy consumption Qhe	4494 kWh	6033 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

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