English

Single View for Model

SUBTYPE

Ecodan Power Inverter (TR) 14 + 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-SWM140YAA + ERST30F-*M*E

Configure model

Model name	PUZ-SWM140YAA + 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 tempera**
Heat output	12 kW	7 kW
El input	2.52 kW	2.59 kW
COP	4.77	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	4.77 kW	3.73 kW
Cooling capacity	12.5	14
EER	2.62	3.75

EN 14825

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.5 kW	14 kW
SEER	3.58	4.85
Pdc Tj = 35°C	12.5 kW	14 kW
EER Tj = 35°C	2.62	3.75
Cdc Tj = 35 °C	0.995	0.994
Pdc Tj = 30°C	9.21 kW	10.32 kW
EER Tj = 30°C	3.47	4.93
Cdc Tj = 30 °C	0.992	0.989
Pdc Tj = 25°C	6 kW	6.63 kW
EER Tj = 25°C	4.2	5.1
Cdc Tj = 25 °C	0.985	0.983
Pdc Tj = 20°C	3.7 kW	4.7 kW
EER Tj = 20°C	3.49	5.4
Cdc Tj = 20 °C	0.979	0.975
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Annual energy consumption Qce	2095 kWh	1731 kWh

Average Climate

EN 12102-1

	Low temperature	Medium tempera
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 tempera
η_s	177 %	135 %
Prated	14 kW	14 kW
SCOP	4.51	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.4 kW	12.4 kW
COP Tj = -7°C	2.7	1.98
Cdh Tj = -7 °C	0.995	0.996
Pdh Tj = +2°C	7.6 kW	7.5 kW
COP Tj = +2°C	4.54	3.43
Cdh Tj = +2 °C	0.987	0.99
Pdh Tj = +7°C	6.4 kW	6.3 kW
COP Tj = +7°C	5.91	4.61
Cdh Tj = +7 °C	0.98	0.984
Pdh Tj = 12°C	4.1 kW	3.9 kW
COP Tj = 12°C	7.03	6.28
Cdh Tj = +12 °C	0.962	0.965
Pdh Tj = Tbiv	12.4 kW	12.4 kW
COP Tj = Tbiv	2.7	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11 kW	11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.4	1.75
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	3 kW	3 kW
Annual energy consumption Qhe	6415 kWh	8354 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	112 %
COP	2.72
Heating up time	2:37 h:min
Standby power input	44 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

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