

English

Single View for Model

SUBTYPE

Ecodan Eco Inverter 3/4H+170D

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

SUZ-SWM30VA + ERST17D-*M*BE

Configure model

Model name	SUZ-SWM30VA + ERST17D-*M*BE
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	3 kW	3.6 kW
El input	0.59 kW	1.27 kW
COP	5.11	2.83

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	0.99 kW	0.64 kW	
Cooling capacity	3.5	3.5	
EER	3.52	5.51	
EN 14825			
	+7°C/+12°C	+18°C/+23°C	
Pdesignc	3.5 kW	3.5 kW	
SEER	4.69	5.89	
Pdc Tj = 35°C	3.5 kW	3.5 kW	
EER Tj = 35°C	3.52	5.51	
Cdc Tj = 35 °C	0.99	0.984	
Pdc Tj = 30°C	2.58 kW	2.58 kW	
EER Tj = 30°C	4.22	6.56	
Cdc Tj = 30 °C	0.984	0.975	
Pdc Tj = 25°C	1.66 kW	1.89 kW	
EER Tj = 25°C	4.73	4.86	
Cdc Tj = 25 °C	0.972	0.974	
Pdc Tj = 20°C	1.53 kW	1.93 kW	
EER Tj = 20°C	7.35	10.05	
Cdc Tj = 20 °C	0.952	0.948	
Poff	10 W	10 W	
PTO	10 W	10 W	
PSB	10 W	10 W	
PCK	0 W	0 W	
Annual energy consumption Qce	447 kWh	357 kWh	

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	54 dB(A)	54 dB(A)	
EN 14825			
	Low temperature	Medium temperature	
η_s	195 %	133 %	

Prated	4 kW	3.6 kW
SCOP	4.95	3.39
Tbiv	-10 °C	-10 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	3.6 kW	3.2 kW
COP Tj = -7°C	3.4	2.27
Cdh Tj = -7 °C	0.991	0.993
Pdh Tj = +2°C	2.2 kW	2 kW
COP Tj = +2°C	4.63	3.13
Cdh Tj = +2 °C	0.979	0.984
Pdh Tj = +7°C	2.4 kW	2.2 kW
COP Tj = +7°C	6.51	4.53
Cdh Tj = +7 °C	0.973	0.979
Pdh Tj = 12°C	2.4 kW	2 kW
COP Tj = 12°C	9.28	7.17
Cdh Tj = +12 °C	0.961	0.964
Pdh Tj = Tbiv	4 kW	3.6 kW
COP Tj = Tbiv	2.79	1.74
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4 kW	3.6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.79	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1670 kWh	2193 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency η_{DHW}	136 %
COP	3.32

Heating up time	2:36 h:min
Standby power input	22.4 W
Reference hot water temperature	53 °C
Mixed water at 40°C	236 l

[Back](#)

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