

English

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Single View for Model

SUBTYPE

Ecodan Eco Inverter 4/6H+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-SHWM40VAH + ERST17D-*M*BE

Configure model		
Model name	SUZ-SHWM40VAH + 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	

Heating

EN 14511-2			
		Low temperature	Medium temperature
Heat output		3 kW	3.6 kW
El input		0.63 kW	1.29 kW
COP		4.77	2.79
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	1.35 kW	1.19 kW
Cooling capacity	4.5	5.6
EER	3.33	4.7

EN 14825		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.5 kW	5.6 kW
SEER	4.91	6.23
Pdc Tj = 35°C	4.5 kW	5.6 kW
EER Tj = 35°C	3.33	4.7
Cdc Tj = 35 °C	0.989	0.987
Pdc Tj = 30°C	3.32 kW	4.13 kW
EER Tj = 30°C	4.23	5.97
Cdc Tj = 30 °C	0.981	0.978
Pdc Tj = 25°C	2.13 kW	2.8 kW
EER Tj = 25°C	5.41	8.43
Cdc Tj = 25 °C	0.962	0.955
Pdc Tj = 20°C	2.1 kW	1.93 kW
EER Tj = 20°C	7.69	5.73
Cdc Tj = 20 °C	0.945	0.955
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	550 kWh	539 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _s	176 %	126 %

Prated	5 kW	4.6 kW
SCOP	4.47	3.23
Tbiv	-10 °C	-10 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	4.5 kW	4.1 kW
COP Tj = -7°C	2.57	2.14
Cdh Tj = -7 °C	0.991	0.992
Pdh Tj = +2°C	3.2 kW	2.8 kW
COP Tj = +2°C	4.29	2.91
Cdh Tj = +2 °C	0.98	0.984
Pdh Tj = +7°C	3 kW	2.6 kW
COP Tj = +7°C	6.19	4.62
Cdh Tj = +7 °C	0.969	0.973
Pdh Tj = 12°C	3.4 kW	3 kW
COP Tj = 12°C	10.44	7.16
Cdh Tj = +12 °C	0.954	0.964
Pdh Tj = Tbiv	5 kW	4.6 kW
COP Tj = Tbiv	2.37	1.66
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5 kW	4.6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.37	1.66
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
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	0 kW	0 kW
Annual energy consumption Qhe	2311 kWh	2939 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	135 %	

COP	3.29
Heating up time	2:34 h:min
Standby power input	22.6 W
Reference hot water temperature	53 °C
Mixed water at 40°C	236 l

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