

English

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Single View for Model

SUBTYPE

Ecodan Eco Inverter 3/4H+200D

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-SHWM30VAH + ERST20D-*M*E

Configure model		
Model name	SUZ-SHWM30VAH + ERST20D-*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	

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	184 %	126 %

Prated	4 kW	3.6 kW
SCOP	4.68	3.22
Tbiv	-10 °C	-10 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	3.6 kW	3.2 kW
COP Tj = -7°C	3.23	2.18
Cdh Tj = -7 °C	0.991	0.993
Pdh Tj = +2°C	2.2 kW	2 kW
COP Tj = +2°C	4.19	2.87
Cdh Tj = +2 °C	0.981	0.986
Pdh Tj = +7°C	2.4 kW	2.2 kW
COP Tj = +7°C	6.62	4.53
Cdh Tj = +7 °C	0.972	0.979
Pdh Tj = 12°C	2.4 kW	2 kW
COP Tj = 12°C	9.51	7.17
Cdh Tj = +12 °C	0.96	0.964
Pdh Tj = Tbiv	4 kW	3.6 kW
COP Tj = Tbiv	2.69	1.69
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	2.69	1.69
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	1766 kWh	2311 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	151 %	

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Certified Products

COP	3.65
Heating up time	2:39 h:min
Standby power input	24 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	274 l

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