

English

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Single View for Model

SUBTYPE

Ecodan Zubadan (TR) 12 + 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-SHWM120VAA + ERST30F-*M*E

Configure model		
Model name	PUZ-SHWM120VAA + 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	

Heating

EN 14511-2			
		Low temperature	Medium temperature
Heat output		10 kW	7 kW
El input		2.04 kW	2.59 kW
COP		4.9	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	3.85 kW	2.67 kW
Cooling capacity	11	12
EER	2.86	4.5

EN 14825		
	+7°C/+12°C	+18°C/+23°C
Pdesignnc	11 kW	12 kW
SEER	4.14	5.71
Pdc Tj = 35°C	11 kW	12 kW
EER Tj = 35°C	2.86	4.5
Cdc Tj = 35 °C	0.996	0.994
Pdc Tj = 30°C	8.11 kW	8.84 kW
EER Tj = 30°C	3.99	5.75
Cdc Tj = 30 °C	0.993	0.99
Pdc Tj = 25°C	5.21 kW	5.68 kW
EER Tj = 25°C	4.59	5.99
Cdc Tj = 25 °C	0.987	0.984
Pdc Tj = 20°C	2.5 kW	3.5 kW
EER Tj = 20°C	4.45	6.3
Cdc Tj = 20 °C	0.973	0.973
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	1595 kWh	1261 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	182 %	138 %

Prated	12.1 kW	12.1 kW
SCOP	4.63	3.53
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	10.7 kW
COP Tj = -7°C	2.87	2.16
Cdh Tj = -7 °C	0.996	0.997
Pdh Tj = +2°C	6.5 kW	6.5 kW
COP Tj = +2°C	4.57	3.38
Cdh Tj = +2 °C	0.989	0.992
Pdh Tj = +7°C	5.2 kW	5 kW
COP Tj = +7°C	6.04	4.75
Cdh Tj = +7 °C	0.983	0.986
Pdh Tj = 12°C	4 kW	3.8 kW
COP Tj = 12°C	7.02	6.32
Cdh Tj = +12 °C	0.974	0.975
Pdh Tj = Tbiv	12.1 kW	12.1 kW
COP Tj = Tbiv	2.45	1.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.1 kW	12.1 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.79
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
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	0 kW	0 kW
Annual energy consumption Qhe	5394 kWh	7074 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	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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