

English

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Single View for Model

SUBTYPE

Ecodan Zubadan (TR) 6/8/10 + 200F 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-SHWM100YAA + ERST20F-*M*E

Configure model		
Model name	PUZ-SHWM100YAA + ERST20F- *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 temperature
Heat output		8 kW	7 kW
El input		1.58 kW	2.59 kW
COP		5.05	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 kW	2.22 kW
Cooling capacity	9	10
EER	3	4.5

EN 14825		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	9 kW	10 kW
SEER	3.93	5.64
Pdc Tj = 35°C	9 kW	10 kW
EER Tj = 35°C	3	4.5
Cdc Tj = 35 °C	0.993	0.99
Pdc Tj = 30°C	6.63 kW	7.37 kW
EER Tj = 30°C	3.82	5.68
Cdc Tj = 30 °C	0.987	0.983
Pdc Tj = 25°C	4.26 kW	4.74 kW
EER Tj = 25°C	4.43	6.05
Cdc Tj = 25 °C	0.977	0.972
Pdc Tj = 20°C	2.5 kW	3.5 kW
EER Tj = 20°C	4.23	6.55
Cdc Tj = 20 °C	0.963	0.959
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Annual energy consumption Qce	1372 kWh	1064 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	186 %	138 %

Prated	10 kW	10 kW
SCOP	4.72	3.52
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.85 kW	8.85 kW
COP Tj = -7°C	3.12	2.2
Cdh Tj = -7 °C	0.992	0.995
Pdh Tj = +2°C	5.4 kW	5.4 kW
COP Tj = +2°C	4.65	3.4
Cdh Tj = +2 °C	0.981	0.986
Pdh Tj = +7°C	5.2 kW	4.8 kW
COP Tj = +7°C	6	4.62
Cdh Tj = +7 °C	0.975	0.979
Pdh Tj = 12°C	3.2 kW	2.9 kW
COP Tj = 12°C	6.96	6.3
Cdh Tj = +12 °C	0.952	0.952
Pdh Tj = Tbiv	10 kW	10 kW
COP Tj = Tbiv	2.51	1.7
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.7
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
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	0 kW	0 kW
Annual energy consumption Qhe	4380 kWh	5868 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	137 %	

COP	3.25
Heating up time	1:55 h:min
Standby power input	42.1 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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