

English

## Single View for Model

### SUBTYPE

#### Ecodan Power Inverter (TR) 14 + 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-SWM140VAA + ERSF-\*M\*E

#### Configure model

Model name	PUZ-SWM140VAA + ERSF-*M*E
Application	Heating (medium 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	12 kW	7 kW
El input	2.52 kW	2.59 kW
COP	4.77	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			
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>	
El input	4.77 kW	3.73 kW	
Cooling capacity	12.5	14	
EER	2.62	3.75	
EN 14825			
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>	
Pdesignc	12.5 kW	14 kW	
SEER	3.61	4.9	
Pdc Tj = 35°C	12.5 kW	14 kW	
EER Tj = 35°C	2.62	3.75	
Cdc Tj = 35 °C	0.997	0.996	
Pdc Tj = 30°C	9.21 kW	10.32 kW	
EER Tj = 30°C	3.47	4.93	
Cdc Tj = 30 °C	0.994	0.993	
Pdc Tj = 25°C	6 kW	6.63 kW	
EER Tj = 25°C	4.2	5.1	
Cdc Tj = 25 °C	0.99	0.988	
Pdc Tj = 20°C	3.7 kW	4.7 kW	
EER Tj = 20°C	3.49	5.4	
Cdc Tj = 20 °C	0.986	0.983	
Poff	15 W	15 W	
PTO	15 W	15 W	
PSB	15 W	15 W	
PCK	0 W	0 W	
Annual energy consumption Qce	2080 kWh	1714 kWh	

## Average Climate

EN 12102-1			
	<b>Low temperature</b>	<b>Medium temperature</b>	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	58 dB(A)	58 dB(A)	
EN 14825			
	<b>Low temperature</b>	<b>Medium temperature</b>	
$\eta_s$	178 %	136 %	

Prated	14 kW	14 kW
SCOP	4.51	3.47
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.4 kW	12.4 kW
COP Tj = -7°C	2.7	1.98
Cdh Tj = -7 °C	0.997	0.998
Pdh Tj = +2°C	7.6 kW	7.5 kW
COP Tj = +2°C	4.54	3.43
Cdh Tj = +2 °C	0.991	0.993
Pdh Tj = +7°C	6.4 kW	6.3 kW
COP Tj = +7°C	5.91	4.61
Cdh Tj = +7 °C	0.986	0.989
Pdh Tj = 12°C	4.1 kW	3.9 kW
COP Tj = 12°C	7.03	6.28
Cdh Tj = +12 °C	0.974	0.976
Pdh Tj = Tbiv	12.4 kW	12.4 kW
COP Tj = Tbiv	2.7	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11 kW	11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.4	1.75
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	3 kW	3 kW
Annual energy consumption Qhe	6407 kWh	8346 kWh

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