

English

## Single View for Model

### SUBTYPE

#### Ecodan Eco Inverter 6/8/10H+300D

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-SWM100VA + ERST30D-\*M\*E

#### Configure model

Model name	SUZ-SWM100VA + ERST30D-*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
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## Heating

#### EN 14511-2

	Low temperature	Medium temperature
Heat output	7.5 kW	7.5 kW
El input	1.55 kW	2.68 kW
COP	4.85	2.8

#### 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	2.43 kW	1.82 kW	
Cooling capacity	7.3	8.1	
EER	3	4.44	
EN 14825			
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>	
Pdesignc	7.3 kW	8.1 kW	
SEER	5.08	6.74	
Pdc Tj = 35°C	7.3 kW	8.1 kW	
EER Tj = 35°C	3	4.44	
Cdc Tj = 35 °C	0.994	0.992	
Pdc Tj = 30°C	5.38 kW	5.97 kW	
EER Tj = 30°C	4.24	6.05	
Cdc Tj = 30 °C	0.988	0.985	
Pdc Tj = 25°C	3.46 kW	4.2 kW	
EER Tj = 25°C	5.94	8.29	
Cdc Tj = 25 °C	0.974	0.97	
Pdc Tj = 20°C	2.8 kW	3.9 kW	
EER Tj = 20°C	7	7.72	
Cdc Tj = 20 °C	0.963	0.97	
Poff	15 W	15 W	
PTO	15 W	15 W	
PSB	15 W	15 W	
PCK	0 W	0 W	
Annual energy consumption Qce	863 kWh	722 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	60 dB(A)	60 dB(A)	
EN 14825			
	<b>Low temperature</b>	<b>Medium temperature</b>	
$\eta_s$	182 %	134 %	

Prated	7.8 kW	7.5 kW
SCOP	4.61	3.43
Tbiv	-10 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	6.9 kW	6.63 kW
COP Tj = -7°C	2.99	1.8
Cdh Tj = -7 °C	0.993	0.996
Pdh Tj = +2°C	4.5 kW	4.1 kW
COP Tj = +2°C	4.57	3.41
Cdh Tj = +2 °C	0.985	0.988
Pdh Tj = +7°C	3.4 kW	3.5 kW
COP Tj = +7°C	5.84	4.79
Cdh Tj = +7 °C	0.974	0.979
Pdh Tj = 12°C	3.7 kW	3.9 kW
COP Tj = 12°C	6.98	6.9
Cdh Tj = +12 °C	0.972	0.973
Pdh Tj = Tbiv	7.8 kW	6.63 kW
COP Tj = Tbiv	2.34	1.8
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.8 kW	6.1 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.34	1.69
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.996
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	1.4 kW
Annual energy consumption Qhe	3492 kWh	4512 kWh

## Domestic Hot Water (DHW)

### Average Climate

EN 16147

Declared load profile	XL
Efficiency $\eta_{DHW}$	125 %
COP	3.07

Heating up time	2:33 h:min
Standby power input	35.8 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

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