

This information was generated by the HP KEYMARK database on 25 Jan 2021

Summary of	Ecodan Power Inverter 6/8-170D AA	Reg. No.	037-0017-20
Certificate Holder			
Name	Mitsubishi Electric Air Conditioning Systems Europe LTD		
Address	Nettlehill Road, Houston Industrial Estate	Zip	EH54 5EQ
City	Livingston	Country	United Kingdom
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)		
Subtype title	Ecodan Power Inverter 6/8-170D AA		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	1.3 kg		
Certification Date	30.11.2020		
Testing basis	HP Keymark scheme rules rev. no. 6		

# Model: PUD-SWM60VAA(-BS) + E\*ST17D-\*M\*D

## General Data

Power supply	1x230V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	5.00 kW	5.00 kW
El input	1.05 kW	1.89 kW
COP	4.76	2.65
Indoor water flow rate	0.86 m <sup>3</sup> /h	0.54 m <sup>3</sup> /h

### EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Average Climate

This information was generated by the HP KEYMARK database on 25 Jan 2021

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	175 %	130 %
Prated	6.00 kW	6.00 kW
SCOP	4.46	3.33
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	5.30 kW	5.30 kW
COP Tj = -7°C	3.21	2.09
Cdh	0.99	0.99
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.21
Cdh	0.99	0.99
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	5.67	4.77
Cdh	0.98	0.99

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Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	7.80	6.74
Cdh	0.96	0.97
Pdh Tj = Tbiv	5.30 kW	5.30 kW
COP Tj = Tbiv	3.21	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.47	1.45
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	0.92 kW	0.93 kW
Annual energy consumption Qhe	2672 kWh	3618 kWh

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 25 Jan 2021

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	136 %
COP	3.22
Heating up time	1:38 h:min
Standby power input	37.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	236 l

# Model: PUD-SWM80VAA(-BS) + E\*ST17D-\*M\*D

## General Data

Power supply	1x230V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.26 kW	2.26 kW
COP	4.76	2.65
Indoor water flow rate	1.03 m <sup>3</sup> /h	0.65 m <sup>3</sup> /h

### EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Average Climate

This information was generated by the HP KEYMARK database on 25 Jan 2021

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	178 %	131 %
Prated	8.00 kW	8.00 kW
SCOP	4.53	3.35
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.00	2.03
Cdh	0.99	1.00
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.19
Cdh	0.99	0.99
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.86
Cdh	0.98	0.99

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Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.00	6.89
Cdh	0.96	0.97
Pdh Tj = Tbiv	7.10 kW	6.80 kW
COP Tj = Tbiv	3.00	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.80 kW	4.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.45	1.44
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	1.28 kW	1.55 kW
Annual energy consumption Qhe	3529 kWh	4814 kWh

## Domestic Hot Water (DHW)

### Average Climate



This information was generated by the HP KEYMARK database on 25 Jan 2021

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	136 %
COP	3.22
Heating up time	1:38 h:min
Standby power input	37.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	236 l

# Model: PUD-SWM80YAA(-BS) + E\*ST17D-\*M\*D

## General Data

Power supply	3x400V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.26 kW	2.26 kW
COP	4.76	2.65
Indoor water flow rate	1.03 m <sup>3</sup> /h	0.65 m <sup>3</sup> /h

### EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	176 %	130 %
Prated	8.00 kW	8.00 kW
SCOP	4.48	3.32
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.00	2.03
Cdh	0.99	0.99
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.19
Cdh	0.98	0.98
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.86
Cdh	0.97	0.98

This information was generated by the HP KEYMARK database on 25 Jan 2021

Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.00	6.89
Cdh	0.94	0.95
Pdh Tj = Tbiv	7.10 kW	6.80 kW
COP Tj = Tbiv	3.00	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.80 kW	4.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.45	1.44
WTOL	60 °C	60 °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	1.28 kW	1.55 kW
Annual energy consumption Qhe	3529 kWh	4814 kWh

## Domestic Hot Water (DHW)

### Average Climate

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