

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	Ecodan Power Inverter 6/8-300D AA	Reg. No.	037-0024-20
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)		
Name of testing laboratory	Universität Stuttgart, IGE, Prüfstelle HLK		
Subtype title	Ecodan Power Inverter 6/8-300D 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-SWM80VAA(-BS) + E*ST30D-*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 ³ /h	0.65 m ³ /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

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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
η_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	4.80 kW	4.70 kW
COP Tj = TOL	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

Warmer 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)

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EN 14825

	Low temperature	Medium temperature
η_s	218 %	131 %
Prated	8.00 kW	8.00 kW
SCOP	5.53	4.10
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	8.00 kW	8.00 kW
COP Tj = +2°C	3.56	1.82
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
COP Tj = +7°C	4.90	3.40
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.12	5.92
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.56	1.82
Pdh Tj = TOL	4.70 kW	4.70 kW
COP Tj = TOL	1.44	1.44
WTOL	60 °C	60 °C

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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	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1879 kWh	2554 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	121 %
COP	2.93
Heating up time	2:49 h:min
Standby power input	39.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Warmer Climate

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EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	145 %
COP	3.49
Heating up time	2:38 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l