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

Summary of	Ecodan Power Inverter 8-170D AA	Reg. No.	037-0010-20
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	Heat Pump Test Center WPZ, Switzerland		
Subtype title	Ecodan Power Inverter 8-170D AA		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	3 kg		
Certification Date	14.02.2020		
Testing basis	HP Keymark scheme rules rev. no. 6		

Model: PUHZ-SW75VAA + EHST17D-VM*D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	8.00 kW	8.00 kW
El input	1.82 kW	3.03 kW
COP	4.40	2.64
Indoor water flow rate	1.38 m³/h	0.86 m³/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	58 dB(A)	58 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	162 %	129 %
Prated	7.20 kW	7.10 kW
SCOP	4.12	3.31
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98

Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
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	1.00 kW	1.00 kW
Annual energy consumption Qhe	3500 kWh	4325 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	136 %
COP	3.21
Heating up time	02:20 h:min
Standby power input	39.0 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l

Model: PUHZ-SW75VAA + ERST17D-VM*D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	8.00 kW	8.00 kW
El input	1.82 kW	3.03 kW
COP	4.40	2.64
Indoor water flow rate	1.38 m³/h	0.86 m³/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	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	166 %	132 %
Prated	7.20 kW	7.10 kW
SCOP	4.22	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98

Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
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	1.00 kW	1.00 kW
Annual energy consumption Qhe	3500 kWh	4325 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	136 %
COP	3.21
Heating up time	02:20 h:min
Standby power input	39.0 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l

Model: PUHZ-SW75YAA + EHST17D-VM*D

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	8.00 kW	8.00 kW
El input	1.82 kW	3.03 kW
COP	4.40	2.64
Indoor water flow rate	1.38 m³/h	0.86 m³/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	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	160 %	128 %
Prated	7.20 kW	7.10 kW
SCOP	4.07	3.28
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98

Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
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	1.00 kW	1.00 kW
Annual energy consumption Qhe	3507 kWh	4329 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	136 %
COP	3.21
Heating up time	02:20 h:min
Standby power input	39.0 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l

Model: PUHZ-SW75YAA + ERST17D-VM*D

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	8.00 kW	8.00 kW
El input	1.82 kW	3.03 kW
COP	4.40	2.64
Indoor water flow rate	1.38 m³/h	0.86 m³/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	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	165 %	132 %
Prated	7.20 kW	7.10 kW
SCOP	4.20	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98

Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
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	1.00 kW	1.00 kW
Annual energy consumption Qhe	3507 kWh	4329 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	136 %
COP	3.21
Heating up time	02:20 h:min
Standby power input	39.0 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l