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

Summary of	Ecodan Power Inverter 8	Reg. No.	037-0055-20
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	CETIAT		
Subtype title	Ecodan Power Inverter 8		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	3.2 kg		
Certification Date	09.04.2020		
Testing basis	HP Keymark scheme rules rev. no. 7		

Model: PUHZ-SW75VHA(-BS) + EHSD-M*C

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	2.98 kW
COP	4.40	2.68
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	40 dB(A)	40 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	165 %	127 %
Prated	7.20 kW	7.10 kW
SCOP	4.17	3.26
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.89	1.95
Cdh	0.97	0.97
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.02	3.23
Cdh	0.97	0.97
Pdh Tj = +7°C	3.90 kW	3.70 kW
COP Tj = +7°C	5.57	4.49
Cdh	0.97	0.97

Pdh Tj = 12°C	4.60 kW	4.30 kW
COP Tj = 12°C	7.50	5.89
Cdh	0.97	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.98	1.95
Pdh Tj = TOL	6.00 kW	6.00 kW
COP Tj = TOL	1.28	1.35
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	0.90 kW	0.90 kW
Annual energy consumption Qhe	3475 kWh	4403 kWh

Model: PUHZ-SW75VHA(-BS) + EHSD-VM*C

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	2.98 kW
COP	4.40	2.68
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	40 dB(A)	40 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	165 %	127 %
Prated	7.20 kW	7.10 kW
SCOP	4.17	3.26
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.89	1.95
Cdh	0.97	0.97
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.02	3.23
Cdh	0.97	0.97
Pdh Tj = +7°C	3.90 kW	3.70 kW
COP Tj = +7°C	5.57	4.49
Cdh	0.97	0.97

Pdh Tj = 12°C	4.60 kW	4.30 kW
COP Tj = 12°C	7.50	5.89
Cdh	0.97	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.98	1.95
Pdh Tj = TOL	6.00 kW	6.00 kW
COP Tj = TOL	1.28	1.35
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	0.90 kW	0.90 kW
Annual energy consumption Qhe	3475 kWh	4403 kWh

Model: PUHZ-SW75VHA(-BS) + EHSD-YM*C

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	2.98 kW
COP	4.40	2.68
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	40 dB(A)	40 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	165 %	127 %
Prated	7.20 kW	7.10 kW
SCOP	4.17	3.26
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.89	1.95
Cdh	0.97	0.97
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.02	3.23
Cdh	0.97	0.97
Pdh Tj = +7°C	3.90 kW	3.70 kW
COP Tj = +7°C	5.57	4.49
Cdh	0.97	0.97

Pdh Tj = 12°C	4.60 kW	4.30 kW
COP Tj = 12°C	7.50	5.89
Cdh	0.97	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.98	1.95
Pdh Tj = TOL	6.00 kW	6.00 kW
COP Tj = TOL	1.28	1.35
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	0.90 kW	0.90 kW
Annual energy consumption Qhe	3475 kWh	4403 kWh

Model: PUHZ-SW75VHA(-BS) + EHST20D-M*C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	8.00 kW	
El input	2.98 kW	
COP	2.68	
Indoor water flow rate	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	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	68 dB(A)

EN 14825	
	Medium temperature
η_s	127 %
Prated	7.10 kW
SCOP	3.26
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	1.95
Cdh	0.97
Pdh Tj = +2°C	3.80 kW
COP Tj = +2°C	3.23
Cdh	0.97
Pdh Tj = +7°C	3.70 kW
COP Tj = +7°C	4.49
Cdh	0.97

Pdh Tj = 12°C	4.30 kW
COP Tj = 12°C	5.89
Cdh	0.97
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	1.95
Pdh Tj = TOL	6.00 kW
COP Tj = TOL	1.35
WTOL	60 °C
Poff	15 W
PTO	15 W
PSB	15 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	0.90 kW
Annual energy consumption Qhe	4403 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	105 %
COP	2.46
Heating up time	2:15 h:min
Standby power input	41.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	278 l

Model: PUHZ-SW75VHA(-BS) + EHST20D-VM*C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	8.00 kW	
El input	2.98 kW	
COP	2.68	
Indoor water flow rate	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	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	68 dB(A)

EN 14825	
	Medium temperature
η_s	127 %
Prated	7.10 kW
SCOP	3.26
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	1.95
Cdh	0.97
Pdh Tj = +2°C	3.80 kW
COP Tj = +2°C	3.23
Cdh	0.97
Pdh Tj = +7°C	3.70 kW
COP Tj = +7°C	4.49
Cdh	0.97

Pdh Tj = 12°C	4.30 kW
COP Tj = 12°C	5.89
Cdh	0.97
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	1.95
Pdh Tj = TOL	6.00 kW
COP Tj = TOL	1.35
WTOL	60 °C
Poff	15 W
PTO	15 W
PSB	15 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	0.90 kW
Annual energy consumption Qhe	4403 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	105 %
COP	2.46
Heating up time	2:15 h:min
Standby power input	41.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	278 l

Model: PUHZ-SW75VHA(-BS) + EHST20D-YM*C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	8.00 kW	
El input	2.98 kW	
COP	2.68	
Indoor water flow rate	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	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	68 dB(A)

EN 14825	
	Medium temperature
η_s	127 %
Prated	7.10 kW
SCOP	3.26
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	1.95
Cdh	0.97
Pdh Tj = +2°C	3.80 kW
COP Tj = +2°C	3.23
Cdh	0.97
Pdh Tj = +7°C	3.70 kW
COP Tj = +7°C	4.49
Cdh	0.97

Pdh Tj = 12°C	4.30 kW
COP Tj = 12°C	5.89
Cdh	0.97
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	1.95
Pdh Tj = TOL	6.00 kW
COP Tj = TOL	1.35
WTOL	60 °C
Poff	15 W
PTO	15 W
PSB	15 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	0.90 kW
Annual energy consumption Qhe	4403 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	105 %
COP	2.46
Heating up time	2:15 h:min
Standby power input	41.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	278 l

Model: PUHZ-SW75VHA(-BS) + ERSD-VM*C

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	2.98 kW
COP	4.40	2.68
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	40 dB(A)	40 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	167 %	129 %
Prated	7.20 kW	7.10 kW
SCOP	4.24	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.89	1.95
Cdh	0.97	0.97
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.02	3.23
Cdh	0.97	0.97
Pdh Tj = +7°C	3.90 kW	3.70 kW
COP Tj = +7°C	5.57	4.49
Cdh	0.97	0.97

Pdh Tj = 12°C	4.60 kW	4.30 kW
COP Tj = 12°C	7.50	5.89
Cdh	0.97	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.98	1.95
Pdh Tj = TOL	6.00 kW	6.00 kW
COP Tj = TOL	1.28	1.35
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	0.90 kW	0.90 kW
Annual energy consumption Qhe	3475 kWh	4403 kWh

Model: PUHZ-SW75VHA(-BS) + ERST20D-M*C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	8.00 kW	
El input	2.98 kW	
COP	2.68	
Indoor water flow rate	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	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	68 dB(A)

EN 14825	
	Medium temperature
η_s	129 %
Prated	7.10 kW
SCOP	3.30
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	1.95
Cdh	0.97
Pdh Tj = +2°C	3.80 kW
COP Tj = +2°C	3.23
Cdh	0.97
Pdh Tj = +7°C	3.70 kW
COP Tj = +7°C	4.49
Cdh	0.97

Pdh Tj = 12°C	4.30 kW
COP Tj = 12°C	5.89
Cdh	0.97
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	1.95
Pdh Tj = TOL	6.00 kW
COP Tj = TOL	1.35
WTOL	60 °C
Poff	15 W
PTO	15 W
PSB	15 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	0.90 kW
Annual energy consumption Qhe	4403 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	105 %
COP	2.46
Heating up time	2:15 h:min
Standby power input	41.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	278 l

Model: PUHZ-SW75VHA(-BS) + ERST20D-VM*C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	8.00 kW	
El input	2.98 kW	
COP	2.68	
Indoor water flow rate	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	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	68 dB(A)

EN 14825	
	Medium temperature
η_s	129 %
Prated	7.10 kW
SCOP	3.30
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	1.95
Cdh	0.97
Pdh Tj = +2°C	3.80 kW
COP Tj = +2°C	3.23
Cdh	0.97
Pdh Tj = +7°C	3.70 kW
COP Tj = +7°C	4.49
Cdh	0.97

Pdh Tj = 12°C	4.30 kW
COP Tj = 12°C	5.89
Cdh	0.97
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	1.95
Pdh Tj = TOL	6.00 kW
COP Tj = TOL	1.35
WTOL	60 °C
Poff	15 W
PTO	15 W
PSB	15 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	0.90 kW
Annual energy consumption Qhe	4403 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	105 %
COP	2.46
Heating up time	2:15 h:min
Standby power input	41.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	278 l