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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 Euro	pe LTD	
Address	Nettlehill Road, Houston Industrial Estate	Zip	EH54 5EQ
City	Livingston	Country	United Kingdom
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering 1	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
СОР	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



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



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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
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o 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
СОР	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



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



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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
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	o 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

Gener	al 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
СОР	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



	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



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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
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o 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

Gener	al Data
Power supply	1x230V 50Hz

Heating

	EN 14511-2	
	Low temperature	Medium temperature
Heat output	8.00 kW	
El input	2.98 kW	
СОР	2.68	
Indoor water flow rate	0.86 m³/h	

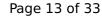
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



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EN 1210	02-1
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	68 dB(A)

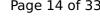
EN 14825	
	Medium temperature
η_{s}	127 %
Prated	7.10 kW
SCOP	3.26
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	1.95
Cdh	0.97
Pdh Tj = +2°C	3.80 kW
$COP Tj = +2^{\circ}C$	3.23
Cdh	0.97
Pdh Tj = +7°C	3.70 kW
COP Tj = +7°C	4.49
Cdh	0.97





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)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	105 %	
СОР	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	



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	
СОР	2.68	
Indoor water flow rate	0.86 m³/h	

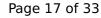
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



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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
$COP Tj = +2^{\circ}C$	3.23
Cdh	0.97
Pdh Tj = +7°C	3.70 kW
$COP Tj = +7^{\circ}C$	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
РТО	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
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Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	105 %	
	2.46	
COP		
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	



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	
СОР	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	



EN 12102-1	
Medium temperature	
Sound power level indoor	40 dB(A)
Sound power level outdoor	68 dB(A)

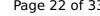
EN 14825		
	Medium temperature	
S	127 %	
rated	7.10 kW	
СОР	3.26	
piv	-7 °C	
DL	-20 °C	
h Tj = -7°C	6.30 kW	
OP Tj = -7°C	1.95	
h	0.97	
n Tj = +2°C	3.80 kW	
P Tj = +2°C	3.23	
h	0.97	
h Tj = +7°C	3.70 kW	
P Tj = +7°C	4.49	
h	0.97	





This information was generated by the High Remarks database on 17 Dec 2021		
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	
РТО	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)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	105 %	
	2.46	
COP		
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	



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	
СОР	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	





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



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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
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o 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	
СОР	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	



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EN 12102-1	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	68 dB(A)

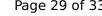
EN 14825	
	Medium temperature
η_s	129 %
Prated	7.10 kW
SCOP	3.30
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	1.95
Cdh	0.97
Pdh Tj = +2°C	3.80 kW
COP Tj = +2°C	3.23
Cdh	0.97
Pdh Tj = +7°C	3.70 kW
COP Tj = +7°C	4.49
Cdh	0.97





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
РТО	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
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Domestic Hot Water (DHW)





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EN 16147	
Declared load profile	L
Efficiency ηDHW	105 %
СОР	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



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	
СОР	2.68	
Indoor water flow rate	0.86 m³/h	

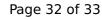
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



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EN 12102-1	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	68 dB(A)

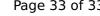
EN 14825	
	Medium temperature
η_s	129 %
Prated	7.10 kW
SCOP	3.30
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	1.95
Cdh	0.97
Pdh Tj = +2°C	3.80 kW
COP Tj = +2°C	3.23
Cdh	0.97
Pdh Tj = +7°C	3.70 kW
COP Tj = +7°C	4.49
Cdh	0.97





This information was generated by the	
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
РТО	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)





 $$\operatorname{\textit{Page}}\xspace$ 33 of 33 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency ηDHW	105 %
СОР	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