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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)			
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

Configure model		
Model name	PUHZ-SW75VHA(-BS) + EHSD-M*C	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

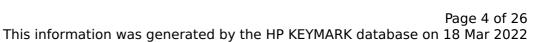
EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.82 kW	2.98 kW
СОР	4.40	2.68

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	2.98	1.95
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.00	3.22
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	3.90 kW	3.70 kW
COP Tj = +7°C	5.55	4.46
Cdh Tj = +7 °C	0.970	0.970





4.60 kW	4.30 kW
7.50	5.89
0.970	0.970
6.40 kW	6.30 kW
2.98	1.95
6.31 kW	6.23 kW
2.59	1.81
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
0 W	0 W
Electricity	Electricity
0.89 kW	0.87 kW
3545 kWh	4497 kWh
	7.50 0.970 6.40 kW 2.98 6.31 kW 2.59 60 °C 15 W 15 W 0 W Electricity 0.89 kW



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

Configure model		
Model name	PUHZ-SW75VHA(-BS) + EHSD-*M*C	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

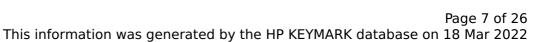
EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.82 kW	2.98 kW
СОР	4.40	2.68

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)
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EN 14825		
	Low temperature	Medium temperature
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TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.98	1.95
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.00	3.22
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	3.90 kW	3.70 kW
COP Tj = +7°C	5.55	4.46
Cdh Tj = +7 °C	0.970	0.970





4.60 kW	4.30 kW
7.50	5.89
0.970	0.970
6.40 kW	6.30 kW
2.98	1.95
6.31 kW	6.23 kW
2.59	1.81
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
0 W	0 W
Electricity	Electricity
0.89 kW	0.87 kW
3545 kWh	4497 kWh
	7.50 0.970 6.40 kW 2.98 6.31 kW 2.59 60 °C 15 W 15 W 0 W Electricity 0.89 kW



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

Configure model		
Model name	PUHZ-SW75VHA(-BS) + EHST20D-M*C	
Application	Heating + DHW	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

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	

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)

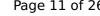
EN 14825	
	Medium temperature
η_{s}	127 %
Prated	7.10 kW
SCOP	3.26
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	1.95
Cdh Tj = -7 °C	0.970
Pdh Tj = +2°C	3.80 kW
COP Tj = +2°C	3.22
Cdh Tj = +2 °C	0.970
Pdh Tj = +7°C	3.70 kW
COP Tj = +7°C	4.46
Cdh Tj = +7 °C	0.970





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Pdh Tj = 12°C	4.30 kW
COP Tj = 12°C	5.89
Cdh Tj = +12 °C	0.970
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
WTOL	60 °C
Poff	15 W
РТО	15 W
PSB	15 W
PCK	o w
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.87 kW
Annual energy consumption Qhe	4497 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-*M*C

Configure model	
Model name	PUHZ-SW75VHA(-BS) + EHST20D-*M*C
Application	Heating + DHW
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

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	

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)	

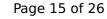
EN 14825		
	Medium temperature	
η_s	127 %	
Prated	7.10 kW	
SCOP	3.26	
Tbiv	-7 °C	
TOL	-20 °C	
Pdh Tj = -7°C	6.30 kW	
COP Tj = -7°C	1.95	
Cdh Tj = -7 °C	0.970	
Pdh Tj = +2°C	3.80 kW	
COP Tj = +2°C	3.22	
Cdh Tj = +2 °C	0.970	
Pdh Tj = +7°C	3.70 kW	
COP Tj = +7°C	4.46	
Cdh Tj = +7 °C	0.970	
	·	





Pdh Tj = 12°C	4.30 kW
COP Tj = 12°C	5.89
Cdh Tj = +12 °C	0.970
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
WTOL	60 °C
Poff	15 W
РТО	15 W
PSB	15 W
PCK	o w
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.87 kW
Annual energy consumption Qhe	4497 kWh

Domestic Hot Water (DHW)





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 I	



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

Configure model		
Model name PUHZ-SW75VHA(-BS) + ERSD-*M*C		
Application Heating (medium temp)		
Units Indoor + Outdoor		
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional) n/a		

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		

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	4.26	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	2.98	1.95
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.00	3.22
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	3.90 kW	3.70 kW
COP Tj = +7°C	5.55	4.46
Cdh Tj = +7 °C	0.970	0.970



Pdh Tj = 12°C	4.60 kW	4.30 kW
COP Tj = 12°C	7.50	5.89
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.98	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	6.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	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	0.89 kW	0.87 kW
Annual energy consumption Qhe	3490 kWh	4442 kWh



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

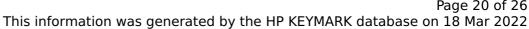
Configure model		
Model name PUHZ-SW75VHA(-BS) + ERST20D-M*C		
Application Heating + DHW		
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility	Yes	
Cooling mode application (optional)	n/a	

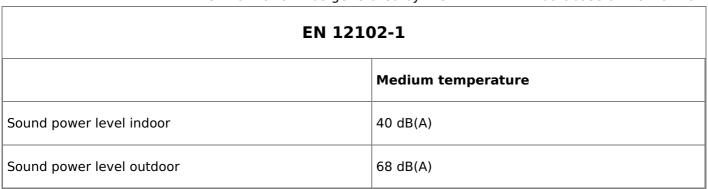
General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	
El input	2.98 kW	
СОР	2.68	

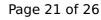
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed





CEN heat pump

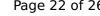
EN 14825	
	Medium temperature
η_{s}	129 %
Prated	7.10 kW
SCOP	3.30
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	1.95
Cdh Tj = -7 °C	0.970
Pdh Tj = +2°C	3.80 kW
COP Tj = +2°C	3.22
Cdh Tj = +2 °C	0.970
Pdh Tj = +7°C	3.70 kW
COP Tj = +7°C	4.46
Cdh Tj = +7 °C	0.970





Pdh Tj = 12°C	4.30 kW
COP Tj = 12°C	5.89
Cdh Tj = +12 °C	0.970
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
WTOL	60 °C
Poff	15 W
PTO	15 W
PSB	15 W
PCK	o w
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.87 kW
Annual energy consumption Qhe	4442 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) + ERST20D-*M*C

Configure model		
Model name PUHZ-SW75VHA(-BS) + ERST20D-*M*C		
Application Heating + DHW		
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility	Yes	
Cooling mode application (optional)	n/a	

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	

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)	

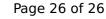
EN 14825		
	Medium temperature	
η_{s}	129 %	
Prated	7.10 kW	
SCOP	3.30	
Tbiv	-7 °C	
TOL	-20 °C	
Pdh Tj = -7 °C	6.30 kW	
COP Tj = -7 °C	1.95	
Cdh Tj = -7 °C	0.970	
Pdh Tj = $+2$ °C	3.80 kW	
$COP Tj = +2^{\circ}C$	3.22	
Cdh Tj = +2 °C	0.970	
Pdh $Tj = +7$ °C	3.70 kW	
$COP Tj = +7^{\circ}C$	4.46	
Cdh Tj = +7 °C	0.970	





This information was generated by the first	
Pdh Tj = 12°C	4.30 kW
COP Tj = 12°C	5.89
Cdh Tj = +12 °C	0.970
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
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	0.87 kW
Annual energy consumption Qhe	4442 kWh

Domestic Hot Water (DHW)





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	