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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

#### **Login**

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		EH54 5EQ
City	Livingston	Country	United Kingdom
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)		
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-\*M\*D

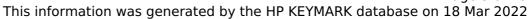
Configure model		
Model name	PUHZ-SW75VAA + EHST17D-*M*D	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

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	3.03 kW
СОР	4.40	2.64

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	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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	2.43	2.04
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.10	3.19
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.90 kW
$COP Tj = +7^{\circ}C$	5.62	4.59
Cdh Tj = +7 °C	0.970	0.980





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3.10 kW	2.80 kW
7.93	6.10
0.960	0.970
6.40 kW	6.30 kW
2.43	2.04
6.22 kW	6.14 kW
2.17	1.89
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
0 W	0 W
Electricity	Electricity
1.00 kW	1.00 kW
3607 kWh	4435 kWh
	7.93  0.960  6.40 kW  2.43  6.22 kW  2.17  60 °C  15 W  15 W  0 W  Electricity  1.00 kW

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	136 %	
СОР	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	



# Model: PUHZ-SW75VAA + ERST17D-\*M\*D

Configure model		
Model name	PUHZ-SW75VAA + ERST17D-*M*D	
Application	Heating + DHW + low 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	3.03 kW
СОР	4.40	2.64

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	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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	2.43	2.04
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh Tj = +7 °C	0.970	0.980





Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.93	6.10
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.43	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.22 kW	6.14 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.89
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	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	1.00 kW
Annual energy consumption Qhe	3525 kWh	4325 kWh

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	136 %	
СОР	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	

### Model: PUHZ-SW75YAA + EHST17D-\*M\*D

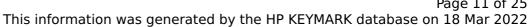
Configure model		
Model name	PUHZ-SW75YAA + EHST17D-*M*D	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

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
СОР	4.40	2.64

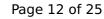
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

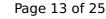
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	160 %	128 %
Prated	7.20 kW	7.10 kW
SCOP	4.07	3.28
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.43	2.04
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.07	3.19
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh Tj = +7 °C	0.970	0.980





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3.10 kW	2.80 kW
7.93	6.10
0.960	0.970
6.40 kW	6.30 kW
2.43	2.04
6.22 kW	6.14 kW
2.17	1.89
60 °C	60 °C
22 W	22 W
22 W	22 W
22 W	22 W
0 W	0 W
Electricity	Electricity
1.00 kW	1.00 kW
3654 kWh	4470 kWh
	7.93  0.960  6.40 kW  2.43  6.22 kW  2.17  60 °C  22 W  22 W  22 W  0 W  Electricity  1.00 kW

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	136 %	
СОР	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 I	



### Model: PUHZ-SW75YAA + ERST17D-\*M\*D

Configure model		
Model name PUHZ-SW75YAA + ERST17D-*M*D		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

#### Heating

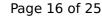
EN 14511-2			
Low temperature Medium temperature			
Heat output	8.00 kW	8.00 kW	
El input	1.82 kW	3.03 kW	
СОР	4.40	2.64	

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	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

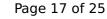
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	132 %
Prated	7.20 kW	7.10 kW
SCOP	4.20	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = $-7$ °C	2.43	2.04
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = $+2$ °C	3.90 kW	3.80 kW
COP Tj = +2°C	4.14	3.23
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = $+7^{\circ}$ C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh Tj = +7 °C	0.970	0.980





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Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.93	6.10
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.22 kW	6.14 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	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	3542 kWh	4361 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	136 %	
СОР	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	



### Model: PUHZ-SW75YAA + ERST17D-\*M\*BD

Configure model		
Model name PUHZ-SW75YAA + ERST17D-*M*BD		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply n/a		

#### Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8.00 kW	8.00 kW	
El input	1.82 kW	3.03 kW	
СОР	4.40	2.64	

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	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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	2.43	2.04
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.14	3.23
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.90 kW
$COPTj = +7^{\circ}C$	5.62	4.59
Cdh Tj = +7 °C	0.970	0.980





Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.93	6.10
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.43	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.22 kW	6.14 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	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	3542 kWh	4361 kWh

Domestic Hot Water (DHW)



# $$\operatorname{\textit{Page}}\xspace$ 21 of 25 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
Declared load profile	L
Efficiency ηDHW	136 %
СОР	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 I



### Model: PUHZ-SW75VAA + ERST17D-\*M\*BD

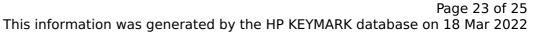
Configure model		
Model name	PUHZ-SW75VAA + ERST17D-*M*BD	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

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	3.03 kW
СОР	4.40	2.64

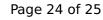
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

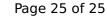
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	166 %	132 %
Prated	7.20 kW	7.10 kW
SCOP	4.22	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.43	2.04
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh Tj = +7 °C	0.970	0.980
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3.10 kW	2.80 kW
7.93	6.10
0.960	0.970
6.40 kW	6.30 kW
2.43	2.04
6.22 kW	6.14 kW
2.17	1.89
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
0 W	0 W
Electricity	Electricity
1.00 kW	1.00 kW
3525 kWh	4325 kWh
	7.93  0.960  6.40 kW  2.43  6.22 kW  2.17  60 °C  15 W  15 W  0 W  Electricity  1.00 kW

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	136 %
СОР	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