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Summary of	Ecodan Power Inverter 8-300D AA	Reg. No.	037-0012-20
Certificate Holder	Certificate Holder		
Name	Mitsubishi Electric Air Conditioning Systems Europe LTD		
Address	Nettlehill Road, Houston Industrial Estate	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 8-300D 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 + EHST30D-M*D

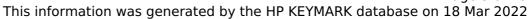
Configure model		
Model name	PUHZ-SW75VAA + EHST30D-M*D	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

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
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	2.43	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	XL	
Efficiency ηDHW	120 %	
СОР	2.90	
Heating up time	03:41 h:min	
Standby power input	41.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	417	



Model: PUHZ-SW75VAA + EHST30D-*M*D

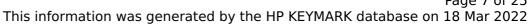
Configure model		
Model name	PUHZ-SW75VAA + EHST30D-*M*D	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

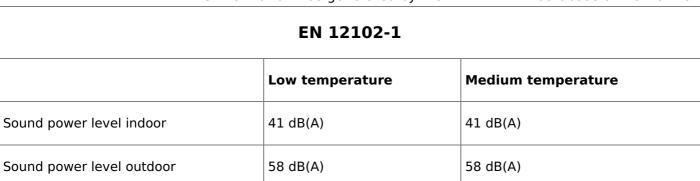
General Data		
Power supply 3x400V 50Hz		

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	





CEN heat pump

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	2.43	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°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	2.43	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	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	3607 kWh	4435 kWh

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	120 %	
СОР	2.90	
Heating up time	03:41 h:min	
Standby power input	41.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	417	



Model: PUHZ-SW75VAA + ERST30D-*M*D

Configure model		
Model name	PUHZ-SW75VAA + ERST30D-*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

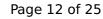
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.00 kW	8.00 kW	
El input	1.82 kW	3.03 kW	
СОР	4.40	2.64	

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)

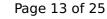
EN 14825		
	Low temperature	Medium temperature
η_{s}	166 %	132 %
Prated	7.20 kW	7.10 kW
SCOP	4.22	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.43	2.04
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh Tj = +2 °C	0.980	0.990
Pdh 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	4352 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	XL	
Efficiency ηDHW	120 %	
СОР	2.90	
Heating up time	03:41 h:min	
Standby power input	41.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	417	



Model: PUHZ-SW75YAA + EHST30D-M*D

Configure model		
Model name	PUHZ-SW75YAA + EHST30D-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

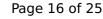
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	





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)

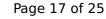
EN 14825		
	Low temperature	Medium temperature
η_{s}	160 %	128 %
Prated	7.20 kW	7.10 kW
SCOP	4.07	3.28
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.43	2.04
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.07	3.19
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = $+7^{\circ}$ 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
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	XL	
Efficiency ηDHW	120 %	
СОР	2.90	
Heating up time	03:41 h:min	
Standby power input	41.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	417	



Model: PUHZ-SW75YAA + EHST30D-*M*D

Configure model		
Model name	PUHZ-SW75YAA + EHST30D-*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)
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EN 14825		
	Low temperature	Medium temperature
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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





-	
3.10 kW	2.80 kW
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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)



$$\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	XL	
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СОР	2.90	
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Reference hot water temperature	52.5 °C	
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Model: PUHZ-SW75YAA + ERST30D-*M*D

Configure model		
Model name	PUHZ-SW75YAA + ERST30D-*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

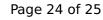
EN 14511-2			
Low temperature Medium temperature			
Heat output	8.00 kW	8.00 kW	
El input	1.82 kW	3.03 kW	
СОР	4.40	2.64	

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
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	2.43	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
$COPTj = +7^{\circ}C$	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
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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
3542 kWh	4361 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	XL	
Efficiency ηDHW	120 %	
СОР	2.90	
Heating up time	03:41 h:min	
Standby power input	41.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	417	