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Login

Summary of	Ecodan Power Inverter 10-300D AA	Reg. No.	037-0015-20	
Certificate Holder	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 10-300D AA			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	4.2 kg			
Certification Date	14.02.2020			
Testing basis	HP Keymark scheme rules rev. no. 6			



Model: PUHZ-SW100VAA + EHST30C-M*D

Configure model		
Model name	PUHZ-SW100VAA + EHST30C-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	11.20 kW	11.20 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

EN 14511-4	
Chutting off the heat transfer medium flow	passed
Shutting off the heat transfer medium flow pa	
Complete power supply failure	passed
Defrost test pa	
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	60 dB(A)	60 dB(A)

EN 14825		
Low temperature	Medium temperature	
167 %	130 %	
10.60 kW	10.00 kW	
4.25	3.33	
-7 °C	-7 °C	
-20 °C	-20 °C	
9.40 kW	8.90 kW	
2.75	1.95	
1.00	1.00	
5.70 kW	5.40 kW	
4.21	3.22	
0.99	0.99	
4.50 kW	4.70 kW	
5.55	4.79	
0.98	0.99	
	Low temperature 167 % 10.60 kW 4.25 -7 °C -20 °C 9.40 kW 2.75 1.00 5.70 kW 4.21 0.99 4.50 kW 5.55	

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Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.55 kW	9.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.80	1.80
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	1.60 kW	1.40 kW
Annual energy consumption Qhe	5026 kWh	6089 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-SW100VAA + EHST30C-*M*D

Configure model		
Model name PUHZ-SW100VAA + EHST30C-*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	11.20 kW	11.20 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

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	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	167 %	130 %
Prated	10.60 kW	10.00 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.99

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Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.55 kW	9.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.80	1.80
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	1.60 kW	1.40 kW
Annual energy consumption Qhe	5026 kWh	6089 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-SW100VAA + ERST30C-*M*D

Configure model		
Model name	PUHZ-SW100VAA + ERST30C-*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	11.20 kW	11.20 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

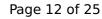
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	170 %	132 %
Prated	10.60 kW	10.00 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.99





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Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.55 kW	9.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.80	1.80
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	1.60 kW	1.40 kW
Annual energy consumption Qhe	5026 kWh	6089 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-SW100YAA + EHST30C-M*D

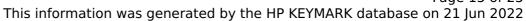
Configure model		
Model name PUHZ-SW100YAA + EHST30C-M*D		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x400V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	11.20 kW	11.20 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

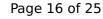
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test passed	
Starting and operating test	passed





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	165 %	129 %
Prated	10.60 kW	10.00 kW
SCOP	4.21	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.99





	This information has generated by the Hill Kern with actualise on Expan 202			
Pdh Tj = 12°C	4.30 kW	5.30 kW		
COP Tj = 12°C	7.47	6.12		
Cdh Tj = +12 °C	0.97	0.98		
Pdh Tj = Tbiv	9.40 kW	8.90 kW		
COP Tj = Tbiv	2.75	1.95		
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.55 kW	9.55 kW		
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.80	1.80		
WTOL	60 °C	60 °C		
Poff	22 W	22 W		
РТО	22 W	22 W		
PSB	22 W	22 W		
PCK	o w	o w		
Supplementary Heater: Type of energy input	Electricity	Electricity		
Supplementary Heater: PSUP	1.60 kW	1.40 kW		
Annual energy consumption Qhe	5035 kWh	6101 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-SW100YAA + EHST30C-*M*D

Configure model		
Model name PUHZ-SW100YAA + EHST30C-*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	11.20 kW	11.20 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

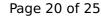
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	165 %	129 %
Prated	10.60 kW	10.00 kW
SCOP	4.21	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
$COP Tj = +2^{\circ}C$	4.21	3.22
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.99

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Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.55 kW	9.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.80	1.80
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	5035 kWh	6101 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-SW100YAA + ERST30C-*M*D

Configure model		
Model name PUHZ-SW100YAA + ERST30C-*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	11.20 kW	11.20 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

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	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	169 %	132 %
Prated	10.60 kW	10.00 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.99

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Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.55 kW	9.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.80	1.80
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	5035 kWh	6101 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