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Summary of	Ecodan Power Inverter 10-300D AA	Reg. No.	037-0015-20
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 Test Institute, Public Enterprise)		
Name of testing laboratory	Heat Pump Test Center WPZ, Switzerland		
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

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
Indoor water flow rate	1.93 m³/h	1.20 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	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	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.99	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.98	0.99





Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	9.55 kW	9.55 kW
COP Tj = TOL	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	0 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-YM*D

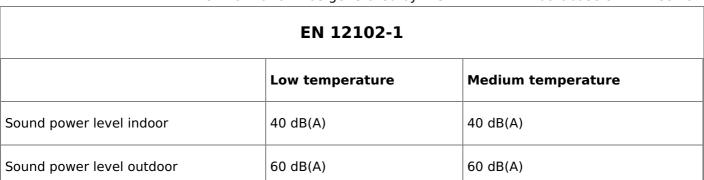
General Data	
Power supply	3x400V 50Hz

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
Indoor water flow rate	1.93 m³/h	1.20 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





CEN heat pump

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	1.00	1.00	
Pdh Tj = +2°C	5.70 kW	5.40 kW	
COP Tj = +2°C	4.21	3.22	
Cdh	0.99	0.99	
Pdh Tj = +7°C	4.50 kW	4.70 kW	
COP Tj = +7°C	5.55	4.79	
Cdh	0.98	0.99	





Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	9.55 kW	9.55 kW
COP Tj = TOL	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	0 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-VM*D

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
Indoor water flow rate	1.93 m³/h	1.20 m³/h

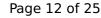
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



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

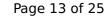
EN 14825		
	Low temperature	Medium temperature
η_{s}	170 %	132 %
Prated	10.60 kW	10.00 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.99	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	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	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	9.55 kW	9.55 kW
COP Tj = TOL	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	0 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

General Data		
Power supply	3x400V 50Hz	

Heating

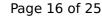
EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71
Indoor water flow rate	1.93 m³/h	1.20 m³/h

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	60 dB(A)	60 dB(A)

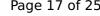
EN 14825		
	Low temperature	Medium temperature
η_{s}	165 %	129 %
Prated	10.60 kW	10.00 kW
SCOP	4.21	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.99	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
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Pdh Tj = 12°C	4.30 kW	5.30 kW
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Cdh	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	9.55 kW	9.55 kW
COP Tj = TOL	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)





 $$\operatorname{\textit{Page}}\ 17$$ of 25 This information was generated by the HP KEYMARK database on 17 Dec 2020

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Declared load profile	XL
Efficiency ηDHW	120 %
СОР	2.90
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General Data	
Power supply	3x400V 50Hz

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Complete power supply failure	passed
Defrost test	passed
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	Low temperature	Medium temperature
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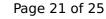
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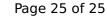
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