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This information was generated by the HP KEYMARK database on 17 Dec 2020

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Summary of	Ecodan Zubadan 8/11-300D AA	Reg. No.	037-0016-20
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 Zubadan 8/11-300D AA		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	4.6 kg		
Certification Date	14.02.2020		
Testing basis	HP Keymark scheme rules rev. no. 6		



Model: PUHZ-SHW80VAA + EHST30C-M*D

General Data	
Power supply	1x230V 50Hz

Heating

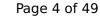
EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.70
Indoor water flow rate	1.38 m³/h	0.86 m³/h

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	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	169 %	133 %
Prated	9.60 kW	9.00 kW
SCOP	4.31	3.40
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.50 kW	8.00 kW
COP Tj = -7°C	3.15	2.13
Cdh	0.99	1.00
Pdh Tj = +2°C	5.20 kW	4.90 kW
COP Tj = +2°C	4.10	3.31
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	5.40 kW
COP Tj = +7°C	5.62	4.66
Cdh	0.98	0.99





Pdh Tj = 12°C	5.60 kW	5.30 kW
COP Tj = 12°C	7.53	5.92
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.50 kW	8.00 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL	8.80 kW	8.80 kW
COP Tj = TOL	1.75	1.75
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	1.20 kW	1.10 kW
Annual energy consumption Qhe	4487 kWh	5364 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-SHW80YAA + EHST30C-M*D

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.70
Indoor water flow rate	1.38 m³/h	0.86 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	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	169 %	132 %
Prated	9.60 kW	9.00 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.50 kW	8.00 kW
COP Tj = -7°C	3.15	2.13
Cdh	0.99	1.00
Pdh Tj = +2°C	5.20 kW	4.90 kW
COP Tj = +2°C	4.10	3.31
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	5.40 kW
COP Tj = +7°C	5.62	4.66
Cdh	0.98	0.99





Pdh Tj = 12°C	5.60 kW	5.30 kW
COP Tj = 12°C	7.53	5.92
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.50 kW	8.00 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL	8.80 kW	8.80 kW
COP Tj = TOL	1.75	1.75
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	1.20 kW	1.10 kW
Annual energy consumption Qhe	4500 kWh	5377 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-SHW112VAA + EHST30C-M*D

General Data		
Power supply	1x230V 50Hz	

Heating

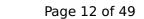
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	11.20 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	
Indoor water flow rate	1.93 m³/h	1.20 m³/h	

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)

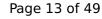
EN 14825		
	Low temperature	Medium temperature
η_{s}	171 %	135 %
Prated	13.90 kW	12.70 kW
SCOP	4.34	3.46
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	3.15	2.12
Cdh	1.00	1.00
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.12	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	4.70 kW
COP Tj = +7°C	5.56	4.79
Cdh	0.98	0.99





Terated by the fill RETT	
5.60 kW	5.30 kW
7.45	6.12
0.98	0.98
12.30 kW	11.20 kW
3.15	2.12
11.35 kW	11.35 kW
2.07	2.07
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
o w	0 W
electricity	electricity
2.10 kW	1.80 kW
6476 kWh	7449 kWh
	5.60 kW 7.45 0.98 12.30 kW 3.15 11.35 kW 2.07 60 °C 15 W 15 W 0 W electricity 2.10 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-SHW112YAA + EHST30C-M*D

General Data	
Power supply	3x400V 50Hz

Heating

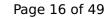
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	11.20 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	
Indoor water flow rate	1.93 m³/h	1.20 m³/h	

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}	169 %	135 %
Prated	13.90 kW	12.70 kW
SCOP	4.31	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	3.15	2.12
Cdh	1.00	1.00
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.12	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	4.70 kW
COP Tj = +7°C	5.56	4.79
Cdh	0.98	0.99





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Pdh Tj = 12°C	5.60 kW	5.30 kW
COP Tj = 12°C	7.45	6.12
Cdh	0.98	0.98
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL	11.35 kW	11.35 kW
COP Tj = TOL	2.07	2.07
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	2.10 kW	1.80 kW
Annual energy consumption Qhe	6484 kWh	7457 kWh

Domestic Hot Water (DHW)





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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-SHW80VAA + EHST30C-YM*D

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.00 kW	8.00 kW	
El input	1.72 kW	2.96 kW	
СОР	4.65	2.70	
Indoor water flow rate	1.38 m³/h	0.86 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	59 dB(A)	59 dB(A)

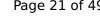
EN 14825		
	Low temperature	Medium temperature
η_{s}	169 %	133 %
Prated	9.60 kW	9.00 kW
SCOP	4.31	3.40
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.50 kW	8.00 kW
COP Tj = -7°C	3.15	2.13
Cdh	0.99	1.00
Pdh Tj = +2°C	5.20 kW	4.90 kW
COP Tj = +2°C	4.10	3.31
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	5.40 kW
COP Tj = +7°C	5.62	4.66
Cdh	0.98	0.99





Pdh Tj = 12°C	5.60 kW	5.30 kW
COP Tj = 12°C	7.53	5.92
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.50 kW	8.00 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL	8.80 kW	8.80 kW
COP Tj = TOL	1.75	1.75
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	1.20 kW	1.10 kW
Annual energy consumption Qhe	4487 kWh	5364 kWh

Domestic Hot Water (DHW)





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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-SHW80YAA + EHST30C-YM*D

General Data		
Power supply 3x400V 50Hz		

Heating

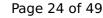
EN 14511-2			
Low temperature Medium temperature			
Heat output	8.00 kW	8.00 kW	
El input	1.72 kW	2.96 kW	
СОР	4.65	2.70	
Indoor water flow rate	1.38 m³/h	0.86 m³/h	

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	59 dB(A)	59 dB(A)

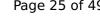
EN 14825		
	Low temperature	Medium temperature
η_{s}	169 %	132 %
Prated	9.60 kW	9.00 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.50 kW	8.00 kW
COP Tj = -7°C	3.15	2.13
Cdh	0.99	1.00
Pdh Tj = +2°C	5.20 kW	4.90 kW
COP Tj = +2°C	4.10	3.31
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	5.40 kW
COP Tj = +7°C	5.62	4.66
Cdh	0.98	0.99





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Pdh Tj = 12°C	5.60 kW	5.30 kW
COP Tj = 12°C	7.53	5.92
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.50 kW	8.00 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL	8.80 kW	8.80 kW
COP Tj = TOL	1.75	1.75
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	1.20 kW	1.10 kW
Annual energy consumption Qhe	4500 kWh	5377 kWh

Domestic Hot Water (DHW)





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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-SHW112VAA + 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

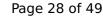
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



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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}	171 %	135 %
Prated	13.90 kW	12.70 kW
SCOP	4.34	3.46
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	3.15	2.12
Cdh	1.00	1.00
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.12	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	4.70 kW
COP Tj = +7°C	5.56	4.79
Cdh	0.98	0.99





5.60 kW	5.30 kW
7.45	6.12
0.98	0.98
12.30 kW	11.20 kW
3.15	2.12
11.35 kW	11.35 kW
2.07	2.07
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
o w	o w
electricity	electricity
2.10 kW	1.80 kW
6476 kWh	7449 kWh
	7.45 0.98 12.30 kW 3.15 11.35 kW 2.07 60 °C 15 W 15 W 0 W electricity 2.10 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-SHW112YAA + EHST30C-YM*D

General Data		
Power supply 3x400V 50Hz		

Heating

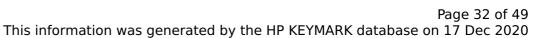
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	11.20 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	
Indoor water flow rate	1.93 m³/h	1.20 m³/h	

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



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)

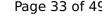
EN 14825		
	Low temperature	Medium temperature
η_{s}	169 %	135 %
Prated	13.90 kW	12.70 kW
SCOP	4.31	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	3.15	2.12
Cdh	1.00	1.00
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.12	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	4.70 kW
COP Tj = +7°C	5.56	4.79
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Pdh Tj = 12°C	5.60 kW	5.30 kW
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Pdh Tj = TOL	11.35 kW	11.35 kW
COP Tj = TOL	2.07	2.07
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	2.10 kW	1.80 kW
Annual energy consumption Qhe	6484 kWh	7457 kWh

Domestic Hot Water (DHW)





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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-SHW80VAA + ERST30C-VM*D

General Data		
Power supply 1x230V 50Hz		

Heating

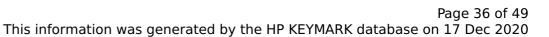
EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.70
Indoor water flow rate	1.38 m³/h	0.86 m³/h

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	59 dB(A)	59 dB(A)		

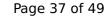
EN 14825				
	Low temperature	Medium temperature		
η_{s}	172 %	135 %		
Prated	9.60 kW	9.00 kW		
SCOP	4.38	3.45		
Tbiv	-7 °C	-7 °C		
TOL	-28 °C	-28 °C		
Pdh Tj = -7°C	8.50 kW	8.00 kW		
COP Tj = -7°C	3.15	2.13		
Cdh	0.99	1.00		
Pdh Tj = +2°C	5.20 kW	4.90 kW		
COP Tj = +2°C	4.10	3.31		
Cdh	0.99	0.99		
Pdh Tj = +7°C	5.00 kW	5.40 kW		
COP Tj = +7°C	5.62	4.66		
Cdh	0.98	0.99		





Pdh Tj = 12°C	5.60 kW	5.30 kW
COP Tj = 12°C	7.53	5.92
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.50 kW	8.00 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL	8.80 kW	8.80 kW
COP Tj = TOL	1.75	1.75
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	1.20 kW	1.10 kW
Annual energy consumption Qhe	4487 kWh	5364 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-SHW80YAA + ERST30C-VM*D

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.70
Indoor water flow rate	1.38 m³/h	0.86 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	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	172 %	134 %
Prated	9.60 kW	9.00 kW
SCOP	4.37	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.50 kW	8.00 kW
COP Tj = -7°C	3.15	2.13
Cdh	0.99	1.00
Pdh Tj = +2°C	5.20 kW	4.90 kW
COP Tj = +2°C	4.10	3.31
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	5.40 kW
COP Tj = +7°C	5.62	4.66
Cdh	0.98	0.99

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5.60 kW	5.30 kW
7.53	5.92
0.98	0.98
8.50 kW	8.00 kW
3.15	2.13
8.80 kW	8.80 kW
1.75	1.75
60 °C	60 °C
22 W	22 W
22 W	22 W
22 W	22 W
o w	0 W
electricity	electricity
1.20 kW	1.10 kW
4500 kWh	5377 kWh
	7.53 0.98 8.50 kW 3.15 8.80 kW 1.75 60 °C 22 W 22 W 0 W electricity 1.20 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-SHW112VAA + 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	

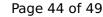
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



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}	173 %	137 %
Prated	13.90 kW	12.70 kW
SCOP	4.39	3.50
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	3.15	2.12
Cdh	1.00	1.00
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.12	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	4.70 kW
COP Tj = +7°C	5.56	4.79
Cdh	0.98	0.99

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This information	n was generated by	the HP KEYMARK	database on 1	.7 Dec 2020

5.60 kW	5.30 kW
7.45	6.12
0.98	0.98
12.30 kW	11.20 kW
3.15	2.12
11.35 kW	11.35 kW
2.07	2.07
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
0 W	0 W
electricity	electricity
2.10 kW	1.80 kW
6476 kWh	7449 kWh
	7.45 0.98 12.30 kW 3.15 11.35 kW 2.07 60 °C 15 W 15 W 0 W electricity 2.10 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-SHW112YAA + ERST30C-VM*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}	173 %	137 %
Prated	13.90 kW	12.70 kW
SCOP	4.39	3.49
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	3.15	2.12
Cdh	1.00	1.00
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.12	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	4.70 kW
COP Tj = +7°C	5.56	4.79
Cdh	0.98	0.99

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Pdh Tj = 12°C	5.60 kW	5.30 kW
COP Tj = 12°C	7.45	6.12
Cdh	0.98	0.98
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL	11.35 kW	11.35 kW
COP Tj = TOL	2.07	2.07
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	2.10 kW	1.80 kW
Annual energy consumption Qhe	6484 kWh	7457 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	