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Summary of	Ecodan Power Inverter 11-200D Packaged AA	Reg. No.	037-0034-20
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)		
Name of testing laboratory	Universität Stuttgart, IGE, Prüfstelle HLK		
Subtype title	Ecodan Power Inverter 11-200D Packaged AA		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	3 kg		
Certification Date	27.07.2020		
Testing basis	HP Keymark scheme rules rev. no. 6		



Model: PUZ-WM112VAA(-BS) + EHPT20X-M*D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	10.00 kW	
El input	2.38 kW	3.33 kW	
СОР	4.70	3.00	
Indoor water flow rate	1.93 m³/h	1.07 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	

Average Climate



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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}	191 %	134 %
Prated	10.00 kW	10.00 kW
SCOP	4.86	3.43
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.99

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Pdh Tj = 12°C	4.60 kW	4.70 kW
COP Tj = 12°C	9.10	6.35
Cdh	0.97	0.98
Pdh Tj = Tbiv	8.90 kW	8.80 kW
COP Tj = Tbiv	3.32	2.21
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.60	1.60
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	1.15 kW	1.22 kW
Annual energy consumption Qhe	4145 kWh	5905 kWh

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}	215 %	134 %
Prated	10.00 kW	10.00 kW
SCOP	5.46	3.87
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
COP Tj = +7°C	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
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	0.00 kW	0.00 kW

2394 kWh

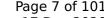
3401 kWh

Domestic Hot Water (DHW)

Annual energy consumption Qhe

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	148 %	
СОР	3.49	
Heating up time	2:06 h:min	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	





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EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
СОР	3.80
Heating up time	1:43 h:min
Standby power input	32.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



Model: PUZ-WM112VAA(-BS) + EHPT20X-VM*D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	10.00 kW
El input	2.38 kW	3.33 kW
СОР	4.70	3.00
Indoor water flow rate	1.93 m³/h	1.07 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

Average Climate

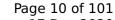


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	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	191 %	134 %
Prated	10.00 kW	10.00 kW
SCOP	4.86	3.43
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.99

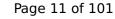
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4.60 kW	4.70 kW
9.10	6.35
0.97	0.98
8.90 kW	8.80 kW
3.32	2.21
8.70 kW	8.70 kW
1.60	1.60
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
o w	o w
electricity	electricity
1.15 kW	1.22 kW
4145 kWh	5905 kWh
	9.10 0.97 8.90 kW 3.32 8.70 kW 1.60 60 °C 15 W 15 W 0 W electricity 1.15 kW

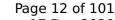
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)





EN 14825

	Low temperature	Medium temperature
η_{s}	215 %	134 %
Prated	10.00 kW	10.00 kW
SCOP	5.46	3.87
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
COP Tj = +7°C	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
WTOL	60 °C	60 °C



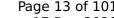


Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2394 kWh	3401 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	148 %
СОР	3.49
Heating up time	2:06 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278





 $$\operatorname{\textit{Page}}\ 13$ of 101$$ This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	
Efficiency ηDHW	161 %
СОР	3.80
Heating up time	1:43 h:min
Standby power input	32.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



Model: PUZ-WM112VAA(-BS) + EHPT20X-YM*D

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	10.00 kW
El input	2.38 kW	3.33 kW
СОР	4.70	3.00
Indoor water flow rate	1.93 m³/h	1.07 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

Average Climate

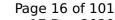


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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	191 %	134 %
Prated	10.00 kW	10.00 kW
SCOP	4.86	3.43
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.99

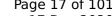
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Pdh Tj = 12°C	4.60 kW	4.70 kW
COP Tj = 12°C	9.10	6.35
Cdh	0.97	0.98
Pdh Tj = Tbiv	8.90 kW	8.80 kW
COP Tj = Tbiv	3.32	2.21
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.60	1.60
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.15 kW	1.22 kW
Annual energy consumption Qhe	4145 kWh	5905 kWh
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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)

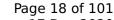




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EN 14825

	Low temperature	Medium temperature
η_{s}	215 %	134 %
Prated	10.00 kW	10.00 kW
SCOP	5.46	3.87
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
COP Tj = +7°C	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
WTOL	60 °C	60 °C





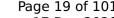
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Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2394 kWh	3401 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	148 %
СОР	3.49
Heating up time	2:06 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278





 $$\operatorname{\textit{Page}}\ 19$ of 101$$ This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
СОР	3.80
Heating up time	1:43 h:min
Standby power input	32.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



Model: PUZ-WM112VAA(-BS) + ERPT20X-VM*D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	10.00 kW
El input	2.38 kW	3.33 kW
СОР	4.70	3.00
Indoor water flow rate	1.93 m³/h	1.07 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

Average Climate



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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}	195 %	136 %
Prated	10.00 kW	10.00 kW
SCOP	4.95	3.48
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.99

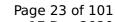
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Pdh Tj = 12°C	4.60 kW	4.70 kW
COP Tj = 12°C	9.10	6.35
Cdh	0.97	0.98
Pdh Tj = Tbiv	8.90 kW	8.80 kW
COP Tj = Tbiv	3.32	2.21
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.60	1.60
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.15 kW	1.22 kW
Annual energy consumption Qhe	4145 kWh	5905 kWh

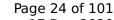
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)





EN 14825

	Low temperature	Medium temperature
η_{s}	220 %	136 %
Prated	10.00 kW	10.00 kW
SCOP	5.58	3.93
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
COP Tj = +7°C	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
WTOL	60 °C	60 °C



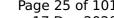


Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2394 kWh	3401 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	148 %
СОР	3.49
Heating up time	2:06 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278





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EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
СОР	3.80
Heating up time	1:43 h:min
Standby power input	32.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



Model: PUZ-WM112VAA(-BS) + ERPT20X-M*D

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	10.00 kW
El input	2.38 kW	3.33 kW
СОР	4.70	3.00
Indoor water flow rate	1.93 m³/h	1.07 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	

Average Climate



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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}	195 %	136 %
Prated	10.00 kW	10.00 kW
SCOP	4.95	3.48
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.99

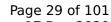
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Teracea by the fill RETT.	
4.60 kW	4.70 kW
9.10	6.35
0.97	0.98
8.90 kW	8.80 kW
3.32	2.21
8.70 kW	8.70 kW
1.60	1.60
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
o w	o w
electricity	electricity
1.15 kW	1.22 kW
4145 kWh	5905 kWh
	9.10 0.97 8.90 kW 3.32 8.70 kW 1.60 60 °C 15 W 15 W 0 W electricity 1.15 kW

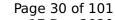
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)





EN 14825

	Low temperature	Medium temperature
η_{s}	220 %	136 %
Prated	10.00 kW	10.00 kW
SCOP	5.58	3.93
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
$COP Tj = +7^{\circ}C$	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
WTOL	60 °C	60 °C



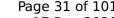


Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2394 kWh	3401 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	148 %	
СОР	3.49	
Heating up time	2:06 h:min	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	





 $$\operatorname{\textit{Page}}\ 31\ \text{of}\ 101$$ This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	L	
Efficiency ηDHW	161 %	
СОР	3.80	
Heating up time	1:43 h:min	
Standby power input	32.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUZ-WM112VAA(-BS) + EHPX-M*D

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	10.00 kW	
El input	2.38 kW	3.33 kW	
СОР	4.70	3.00	
Indoor water flow rate	1.93 m³/h	1.07 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	

Average Climate

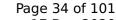


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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	191 %	134 %
Prated	10.00 kW	10.00 kW
SCOP	4.86	3.43
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.99

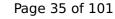
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Pdh Tj = 12°C	4.60 kW	4.70 kW
COP Tj = 12°C	9.10	6.35
Cdh	0.97	0.98
Pdh Tj = Tbiv	8.90 kW	8.80 kW
COP Tj = Tbiv	3.32	2.21
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.60	1.60
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.15 kW	1.22 kW
Annual energy consumption Qhe	4145 kWh	5905 kWh

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}	215 %	134 %
Prated	10.00 kW	10.00 kW
SCOP	5.46	3.87
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
COP Tj = +7°C	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
WTOL	60 °C	60 °C



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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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2394 kWh	3401 kWh



Model: PUZ-WM112VAA(-BS) + EHPX-VM*D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	10.00 kW	
El input	2.38 kW	3.33 kW	
СОР	4.70	3.00	
Indoor water flow rate	1.93 m³/h	1.07 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

Average Climate



 $$\operatorname{\textit{Page}}\ 38$ of 101$$ This information was generated by the HP KEYMARK database on 17 Dec 2020

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}	191 %	134 %
Prated	10.00 kW	10.00 kW
SCOP	4.86	3.43
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.99

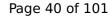
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Pdh Tj = 12°C	4.60 kW	4.70 kW
COP Tj = 12°C	9.10	6.35
Cdh	0.97	0.98
Pdh Tj = Tbiv	8.90 kW	8.80 kW
COP Tj = Tbiv	3.32	2.21
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.60	1.60
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.15 kW	1.22 kW
Annual energy consumption Qhe	4145 kWh	5905 kWh

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}	215 %	134 %
Prated	10.00 kW	10.00 kW
SCOP	5.46	3.87
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
COP Tj = +7°C	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
WTOL	60 °C	60 °C



$$\operatorname{\textit{Page}}$$ 41 of 101 This information was generated by the HP KEYMARK database on 17 Dec 2020

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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2394 kWh	3401 kWh



Model: PUZ-WM112VAA(-BS) + EHPX-YM*D

General Data		
Power supply 3x400V 50Hz		

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	10.00 kW	
El input	2.38 kW	3.33 kW	
СОР	4.70	3.00	
Indoor water flow rate	1.93 m³/h	1.07 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

Average Climate



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}	191 %	134 %
Prated	10.00 kW	10.00 kW
SCOP	4.86	3.43
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.99

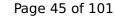
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-	
4.60 kW	4.70 kW
9.10	6.35
0.97	0.98
8.90 kW	8.80 kW
3.32	2.21
8.70 kW	8.70 kW
1.60	1.60
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
o w	o w
electricity	electricity
1.15 kW	1.22 kW
4145 kWh	5905 kWh
	9.10 0.97 8.90 kW 3.32 8.70 kW 1.60 60 °C 15 W 15 W 0 W electricity 1.15 kW

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}	215 %	134 %
Prated	10.00 kW	10.00 kW
SCOP	5.46	3.87
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
COP Tj = +7°C	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
WTOL	60 °C	60 °C



$$\operatorname{\textit{Page}}$$ 46 of 101 This information was generated by the HP KEYMARK database on 17 Dec 2020

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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2394 kWh	3401 kWh



Model: PUZ-WM112VAA(-BS)

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	10.00 kW	
El input	2.38 kW	3.33 kW	
СОР	4.70	3.00	
Indoor water flow rate	1.93 m³/h	1.07 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	

Average Climate



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}	195 %	136 %
Prated	10.00 kW	10.00 kW
SCOP	4.95	3.48
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.99

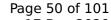
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Pdh Tj = 12°C	4.60 kW	4.70 kW
COP Tj = 12°C	9.10	6.35
Cdh	0.97	0.98
Pdh Tj = Tbiv	8.90 kW	8.80 kW
COP Tj = Tbiv	3.32	2.21
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.60	1.60
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.15 kW	1.22 kW
Annual energy consumption Qhe	4145 kWh	5905 kWh
		-

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}	220 %	136 %
Prated	10.00 kW	10.00 kW
SCOP	5.58	3.93
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
COP Tj = +7°C	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
WTOL	60 °C	60 °C



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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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2394 kWh	3401 kWh



Model: PUZ-WM112YAA(-BS) + EHPT20X-M*D

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	10.00 kW	
El input	2.38 kW	3.33 kW	
СОР	4.70	3.00	
Indoor water flow rate	1.93 m³/h	1.07 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	

Average Climate

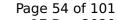


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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	189 %	133 %
Prated	10.00 kW	10.00 kW
SCOP	4.81	3.41
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	0.99
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.98

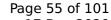
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Theracea by the fill RETT.	
4.60 kW	4.70 kW
9.10	6.35
0.97	0.97
8.90 kW	8.80 kW
3.32	2.21
8.70 kW	8.70 kW
1.60	1.60
60 °C	60 °C
22 W	22 W
22 W	22 W
22 W	22 W
0 W	o w
electricity	electricity
1.15 kW	1.22 kW
4145 kWh	5905 kWh
	9.10 0.97 8.90 kW 3.32 8.70 kW 1.60 60 °C 22 W 22 W 0 W electricity 1.15 kW

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}	213 %	133 %
Prated	10.00 kW	10.00 kW
SCOP	5.41	3.84
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
$COP Tj = +7^{\circ}C$	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
WTOL	60 °C	60 °C



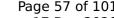


Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2394 kWh	3401 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	148 %
СОР	3.49
Heating up time	2:06 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 I





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	161 %	
СОР	3.80	
Heating up time	1:43 h:min	
Standby power input	32.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUZ-WM112YAA(-BS) + EHPT20X-VM*D

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	10.00 kW	
El input	2.38 kW	3.33 kW	
СОР	4.70	3.00	
Indoor water flow rate	1.93 m³/h	1.07 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	

Average Climate

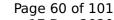


 $$\operatorname{\textit{Page}}\xspace$ 59 of 101 This information was generated by the HP KEYMARK database on 17 Dec 2020

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}	189 %	133 %
Prated	10.00 kW	10.00 kW
SCOP	4.81	3.41
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	0.99
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.98

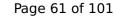
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Pdh Tj = 12°C	4.60 kW	4.70 kW
COP Tj = 12°C	9.10	6.35
Cdh	0.97	0.97
Pdh Tj = Tbiv	8.90 kW	8.80 kW
COP Tj = Tbiv	3.32	2.21
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.60	1.60
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.15 kW	1.22 kW
Annual energy consumption Qhe	4145 kWh	5905 kWh

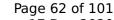
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)





EN 14825

	Low temperature	Medium temperature
η_{s}	213 %	133 %
Prated	10.00 kW	10.00 kW
SCOP	5.41	3.84
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
$COP Tj = +7^{\circ}C$	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
WTOL	60 °C	60 °C



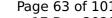


Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2394 kWh	3401 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	148 %	
СОР	3.49	
Heating up time	2:06 h:min	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	161 %	
СОР	3.80	
Heating up time	1:43 h:min	
Standby power input	32.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUZ-WM112YAA(-BS) + EHPT20X-YM*D

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	10.00 kW	
El input	2.38 kW	3.33 kW	
СОР	4.70	3.00	
Indoor water flow rate	1.93 m³/h	1.07 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	

Average Climate

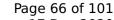


 $$\operatorname{\textit{Page}}\xspace$ 65 of 101 This information was generated by the HP KEYMARK database on 17 Dec 2020

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}	189 %	133 %
Prated	10.00 kW	10.00 kW
SCOP	4.81	3.41
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	0.99
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.98

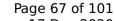
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Pdh Tj = 12°C	4.60 kW	4.70 kW
COP Tj = 12°C	9.10	6.35
Cdh	0.97	0.97
Pdh Tj = Tbiv	8.90 kW	8.80 kW
COP Tj = Tbiv	3.32	2.21
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.60	1.60
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.15 kW	1.22 kW
Annual energy consumption Qhe	4145 kWh	5905 kWh

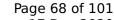
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)





EN 14825

	Low temperature	Medium temperature
η_{s}	213 %	133 %
Prated	10.00 kW	10.00 kW
SCOP	5.41	3.84
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
COP Tj = +7°C	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
WTOL	60 °C	60 °C



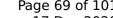


Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2394 kWh	3401 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	148 %	
СОР	3.49	
Heating up time	2:06 h:min	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	161 %	
СОР	3.80	
Heating up time	1:43 h:min	
Standby power input	32.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUZ-WM112YAA(-BS) + ERPT20X-VM*D

General Data	
Power supply 3x400V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	10.00 kW	
El input	2.38 kW	3.33 kW	
СОР	4.70	3.00	
Indoor water flow rate	1.93 m³/h	1.07 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

Average Climate



 $$\operatorname{\textit{Page}}\ 71$ of 101$$ This information was generated by the HP KEYMARK database on 17 Dec 2020

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}	195 %	136 %
Prated	10.00 kW	10.00 kW
SCOP	4.95	3.48
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	0.99
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.98

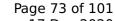
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Pdh Tj = 12°C	4.60 kW	4.70 kW
COP Tj = 12°C	9.10	6.35
Cdh	0.97	0.97
Pdh Tj = Tbiv	8.90 kW	8.80 kW
COP Tj = Tbiv	3.32	2.21
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.60	1.60
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.15 kW	1.22 kW
Annual energy consumption Qhe	4145 kWh	5905 kWh

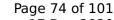
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)





EN 14825

	Low temperature	Medium temperature
η_{s}	220 %	136 %
Prated	10.00 kW	10.00 kW
SCOP	5.58	3.93
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
$COP Tj = +7^{\circ}C$	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
WTOL	60 °C	60 °C



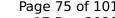


Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2394 kWh	3401 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	148 %
СОР	3.49
Heating up time	2:06 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 I





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EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
СОР	3.80
Heating up time	1:43 h:min
Standby power input	32.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



Model: PUZ-WM112YAA(-BS) + ERPT20X-M*D

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	10.00 kW
El input	2.38 kW	3.33 kW
СОР	4.70	3.00
Indoor water flow rate	1.93 m³/h	1.07 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

Average Climate



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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}	195 %	136 %
Prated	10.00 kW	10.00 kW
SCOP	4.95	3.48
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	0.99
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.98





Pdh Tj = 12°C	4.60 kW	4.70 kW
COP Tj = 12°C	9.10	6.35
Cdh	0.97	0.97
Pdh Tj = Tbiv	8.90 kW	8.80 kW
COP Tj = Tbiv	3.32	2.21
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.60	1.60
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	1.15 kW	1.22 kW
Annual energy consumption Qhe	4145 kWh	5905 kWh

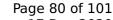
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)





EN 14825

	Low temperature	Medium temperature
η_{s}	220 %	136 %
Prated	10.00 kW	10.00 kW
SCOP	5.58	3.93
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
COP Tj = +7°C	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
WTOL	60 °C	60 °C



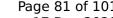


Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2394 kWh	3401 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	148 %	
СОР	3.49	
Heating up time	2:06 h:min	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	161 %	
СОР	3.80	
Heating up time	1:43 h:min	
Standby power input	32.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUZ-WM112YAA(-BS) + EHPX-M*D

General Data	
Power supply 3x400V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	10.00 kW	
El input	2.38 kW	3.33 kW	
СОР	4.70	3.00	
Indoor water flow rate	1.93 m³/h	1.07 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	

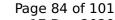
Average Climate



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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)

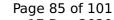
EN 14825		
	Low temperature	Medium temperature
η_{s}	189 %	133 %
Prated	10.00 kW	10.00 kW
SCOP	4.81	3.41
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	0.99
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.98





Pdh Tj = 12°C	4.60 kW	4.70 kW
COP Tj = 12°C	9.10	6.35
Cdh	0.97	0.97
Pdh Tj = Tbiv	8.90 kW	8.80 kW
COP Tj = Tbiv	3.32	2.21
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.60	1.60
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	1.15 kW	1.22 kW
Annual energy consumption Qhe	4145 kWh	5905 kWh

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}	213 %	133 %
Prated	10.00 kW	10.00 kW
SCOP	5.41	3.84
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
$COP Tj = +7^{\circ}C$	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
WTOL	60 °C	60 °C



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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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2394 kWh	3401 kWh



Model: PUZ-WM112YAA(-BS) + EHPX-VM*D

General Data		
Power supply 3x400V 50Hz		

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	10.00 kW	
El input	2.38 kW	3.33 kW	
СОР	4.70	3.00	
Indoor water flow rate	1.93 m³/h	1.07 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	

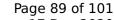
Average Climate



 $$\operatorname{\textit{Page}}$$ 88 of 101 This information was generated by the HP KEYMARK database on 17 Dec 2020

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}	189 %	133 %
Prated	10.00 kW	10.00 kW
SCOP	4.81	3.41
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	0.99
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.98





Pdh Tj = 12°C	4.60 kW	4.70 kW
COP Tj = 12°C	9.10	6.35
Cdh	0.97	0.97
Pdh Tj = Tbiv	8.90 kW	8.80 kW
COP Tj = Tbiv	3.32	2.21
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.60	1.60
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	1.15 kW	1.22 kW
Annual energy consumption Qhe	4145 kWh	5905 kWh

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}	213 %	133 %
Prated	10.00 kW	10.00 kW
SCOP	5.41	3.84
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
$COP Tj = +7^{\circ}C$	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
WTOL	60 °C	60 °C



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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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2394 kWh	3401 kWh



Model: PUZ-WM112YAA(-BS) + EHPX-YM*D

General Data	
Power supply 3x400V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	10.00 kW	
El input	2.38 kW	3.33 kW	
СОР	4.70	3.00	
Indoor water flow rate	1.93 m³/h	1.07 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	

Average Climate



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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)

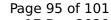
EN 14825		
	Low temperature	Medium temperature
η_{s}	189 %	133 %
Prated	10.00 kW	10.00 kW
SCOP	4.81	3.41
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	0.99
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.98





Pdh Tj = 12°C	4.60 kW	4.70 kW
COP Tj = 12°C	9.10	6.35
Cdh	0.97	0.97
Pdh Tj = Tbiv	8.90 kW	8.80 kW
COP Tj = Tbiv	3.32	2.21
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.60	1.60
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	1.15 kW	1.22 kW
Annual energy consumption Qhe	4145 kWh	5905 kWh

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}	213 %	133 %
Prated	10.00 kW	10.00 kW
SCOP	5.41	3.84
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
$COP Tj = +7^{\circ}C$	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
WTOL	60 °C	60 °C



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Poff	22 W	22 W
PTO	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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2394 kWh	3401 kWh



Model: PUZ-WM112YAA(-BS)

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	10.00 kW
El input	2.38 kW	3.33 kW
СОР	4.70	3.00
Indoor water flow rate	1.93 m³/h	1.07 m³/h

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

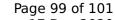
Average Climate



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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}	195 %	136 %
Prated	10.00 kW	10.00 kW
SCOP	4.95	3.48
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.80 kW	8.80 kW
COP Tj = -7°C	3.31	2.23
Cdh	0.99	0.99
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.79	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	4.90 kW	5.20 kW
COP Tj = +7°C	6.68	4.61
Cdh	0.98	0.98





Teracea by the rin Reini	
4.60 kW	4.70 kW
9.10	6.35
0.97	0.97
8.90 kW	8.80 kW
3.32	2.21
8.70 kW	8.70 kW
1.60	1.60
60 °C	60 °C
22 W	22 W
22 W	22 W
22 W	22 W
o w	o w
electricity	electricity
1.15 kW	1.22 kW
4145 kWh	5905 kWh
	4.60 kW 9.10 0.97 8.90 kW 3.32 8.70 kW 1.60 60 °C 22 W 22 W 22 W 0 W electricity 1.15 kW

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}	220 %	136 %
Prated	10.00 kW	10.00 kW
SCOP	5.58	3.93
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10.00 kW	10.00 kW
COP Tj = +2°C	3.30	1.90
Cdh	1.00	1.00
Pdh Tj = +7°C	6.40 kW	6.40 kW
COP Tj = +7°C	4.73	3.15
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.40 kW
COP Tj = 12°C	7.12	5.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.00 kW	10.00 kW
COP Tj = Tbiv	3.31	1.81
Pdh Tj = TOL	8.70 kW	8.70 kW
COP Tj = TOL	1.53	1.53
WTOL	60 °C	60 °C



$$\operatorname{\textit{Page}}\xspace$ 101 of 101 This information was generated by the HP KEYMARK database on 17 Dec 2020

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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2394 kWh	3401 kWh