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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

#### **Login**

Summary of	Ecodan Power Inverter 6/9-200D Packaged AA	Reg. No.	037-0033-20	
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 6/9-200D Packaged AA			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R32			
Mass of Refrigerant	2.2 kg			
Certification Date	22.06.2020			
Testing basis	HP Keymark scheme rules rev. no. 6			



### Model: PUZ-WM60VAA(-BS) + EHPT20X-M\*D

Configure model		
Model name	PUZ-WM60VAA(-BS) + EHPT20X-M*D	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

### Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	6 kW	6 kW	
El input	1.19 kW	2.01 kW	
СОР	5.06	2.98	

EN 14511-4		
Shutting off the heat transfer medium flow	naccod	
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	58 dB(A)	58 dB(A)	

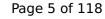
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	190 %	142 %
Prated	6 kW	6 kW
SCOP	4.84	3.62
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	5.3 kW	5.3 kW
COP Tj = -7°C	3.4	2.26
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.1 kW	3.5 kW
COP Tj = +2°C	4.74	3.5
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.3 kW	3.6 kW
COP Tj = +7°C	6.36	5.07
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	3.1 kW	3.2 kW
COP Tj = 12°C	8.86	6.81
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	5.3 kW	5.3 kW
COP Tj = Tbiv	3.4	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.21 kW	5.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.02	2.14
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	0.79 kW	0.79 kW
Annual energy consumption Qhe	2564 kWh	3428 kWh

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	
Sound power level outdoor	58 dB(A)	58 dB(A)	





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	218 %	154 %
Prated	6 kW	6 kW
SCOP	5.52	3.92
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6 kW	6 kW
COP Tj = +2°C	3.75	1.85
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	3.9 kW	3.9 kW
$COPTj = +7^{\circ}C$	4.84	3.3
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.6	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	6 kW	6 kW
COP Tj = Tbiv	3.75	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.75	1.85
WTOL	60 °C	60 °C

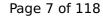


Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1453 kWh	2046 kWh

### Domestic Hot Water (DHW)

### Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	145 %	
СОР	3.42	
Heating up time	01:58 h:min	
Standby power input	36 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	





EN 16147		
Declared load profile	L	
Efficiency ηDHW	161 %	
СОР	3.78	
Heating up time	02:28 h:min	
Standby power input	34 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



### Model: PUZ-WM60VAA(-BS) + EHPT20X-\*M\*D

Configure model		
Model name PUZ-WM60VAA(-BS) + EHPT20X-*M*D		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone Warmer Climate		
Reversibility No		
Cooling mode application (optional) n/a		

General Data		
Power supply 1x230V 50Hz		

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6 kW	6 kW
El input	1.19 kW	2.01 kW
СОР	5.06	2.98

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

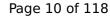
### **Average Climate**





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

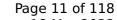
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	190 %	142 %
Prated	6 kW	6 kW
SCOP	4.84	3.62
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	5.3 kW	5.3 kW
COP Tj = -7°C	3.4	2.26
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.1 kW	3.5 kW
COP Tj = +2°C	4.74	3.5
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.3 kW	3.6 kW
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Cdh Tj = +7 °C	0.97	0.98





	<del> </del>	
Pdh Tj = 12°C	3.1 kW	3.2 kW
COP Tj = 12°C	8.86	6.81
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	5.3 kW	5.3 kW
COP Tj = Tbiv	3.4	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.21 kW	5.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.02	2.14
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	0.79 kW	0.79 kW
Annual energy consumption Qhe	2564 kWh	3428 kWh

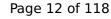
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	218 %	154 %
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Pdh Tj = 12°C	3.6 kW	3.4 kW
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WTOL	60 °C	60 °C



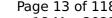


Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1453 kWh	2046 kWh

### Domestic Hot Water (DHW)

### **Average Climate**

EN 16147		
Declared load profile	L	
Efficiency ηDHW	145 %	
СОР	3.42	
Heating up time	01:58 h:min	
Standby power input	36 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	





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Declared load profile	L
Efficiency ηDHW	161 %
СОР	3.78
Heating up time	02:28 h:min
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Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



## Model: PUZ-WM60VAA(-BS) + EHPX-M\*D

Configure model	
Model name	PUZ-WM60VAA(-BS) + EHPX-M*D
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data		
Power supply	1x230V 50Hz	

### Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	6 kW	6 kW
El input	1.19 kW	2.01 kW
СОР	5.06	2.98

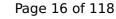
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

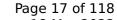
EN 14825		
	Low temperature	Medium temperature
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Prated	6 kW	6 kW
SCOP	4.84	3.62
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	5.3 kW	5.3 kW
COP Tj = -7°C	3.4	2.26
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Pdh Tj = +2°C	4.1 kW	3.5 kW
COP Tj = +2°C	4.74	3.5
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.21 kW	5.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.02	2.14
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	0.79 kW	0.79 kW
Annual energy consumption Qhe	2564 kWh	3428 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	218 %	154 %
Prated	6 kW	6 kW
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Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	3.9 kW	3.9 kW
$COPTj = +7^{\circ}C$	4.84	3.3
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.75	1.85
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	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1453 kWh	2046 kWh



### Model: PUZ-WM60VAA(-BS) + EHPX-\*M\*D

Configure model		
Model name	PUZ-WM60VAA(-BS) + EHPX-*M*D	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

### Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	6 kW	6 kW	
El input	1.19 kW	2.01 kW	
СОР	5.06	2.98	

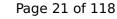
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

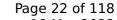
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	190 %	142 %
Prated	6 kW	6 kW
SCOP	4.84	3.62
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	5.3 kW	5.3 kW
COP Tj = -7°C	3.4	2.26
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.1 kW	3.5 kW
COP Tj = +2°C	4.74	3.5
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.3 kW	3.6 kW
COP Tj = +7°C	6.36	5.07
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Pdh Tj = 12°C	3.1 kW	3.2 kW
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Pdh Tj = Tbiv	5.3 kW	5.3 kW
COP Tj = Tbiv	3.4	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.21 kW	5.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.02	2.14
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	0.79 kW	0.79 kW
Annual energy consumption Qhe	2564 kWh	3428 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	218 %	154 %
Prated	6 kW	6 kW
SCOP	5.52	3.92
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6 kW	6 kW
COP Tj = +2°C	3.75	1.85
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	3.9 kW	3.9 kW
$COPTj = +7^{\circ}C$	4.84	3.3
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.6	5.76
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Pdh Tj = Tbiv	6 kW	6 kW
COP Tj = Tbiv	3.75	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.75	1.85
WTOL	60 °C	60 °C



# $$\operatorname{\textit{Page}}\xspace$ 23 of 118 This information was generated by the HP KEYMARK database on 18 Mar 2022

Poff	15 W	15 W
PTO	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 kW	0 kW
Annual energy consumption Qhe	1453 kWh	2046 kWh



### Model: PUZ-WM60VAA(-BS) + ERPT20X-M\*D

Configure model		
Model name	PUZ-WM60VAA(-BS) + ERPT20X-M*D	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

### Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	6 kW	6 kW	
El input	1.19 kW	2.01 kW	
СОР	5.06	2.98	

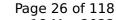
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

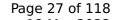
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	197 %	145 %
Prated	6 kW	6 kW
SCOP	4.99	3.71
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	5.3 kW	5.3 kW
COP Tj = -7°C	3.4	2.26
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.1 kW	3.5 kW
COP Tj = +2°C	4.84	3.56
Cdh Tj = +2 °C	0.98	0.98
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Pdh Tj = 12°C	3.1 kW	3.2 kW
COP Tj = 12°C	8.86	6.81
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	5.3 kW	5.3 kW
COP Tj = Tbiv	3.4	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.21 kW	5.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.02	2.14
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	0.79 kW	0.79 kW
Annual energy consumption Qhe	2484 kWh	3344 kWh

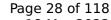
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	226 %	158 %
Prated	6 kW	6 kW
SCOP	5.73	4.02
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = $+2$ °C	6 kW	6 kW
COP Tj = +2°C	3.75	1.85
Cdh Tj = +2 °C	0.99	1
Pdh Tj = $+7^{\circ}$ C	3.9 kW	3.9 kW
$COPTj = +7^{\circ}C$	4.8	3.25
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.5	5.76
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Pdh Tj = Tbiv	6 kW	6 kW
COP Tj = Tbiv	3.75	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.75	1.85
WTOL	60 °C	60 °C



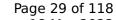


Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1400 kWh	1994 kWh

### Domestic Hot Water (DHW)

### Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	145 %	
СОР	3.42	
Heating up time	01:58 h:min	
Standby power input	36 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	





EN 16147		
Declared load profile	L	
Efficiency ηDHW	161 %	
СОР	3.78	
Heating up time	02:28 h:min	
Standby power input	34 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



### Model: PUZ-WM60VAA(-BS) + ERPT20X-\*M\*D

Configure model		
Model name	PUZ-WM60VAA(-BS) + ERPT20X-*M*D	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

### Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	6 kW	6 kW	
El input	1.19 kW	2.01 kW	
СОР	5.06	2.98	

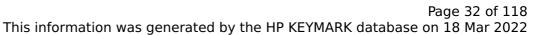
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

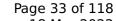
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	197 %	145 %
Prated	6 kW	6 kW
SCOP	4.99	3.71
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	5.3 kW	5.3 kW
COP Tj = -7°C	3.4	2.26
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.1 kW	3.5 kW
COP Tj = +2°C	4.84	3.56
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.3 kW	3.6 kW
COP Tj = +7°C	6.35	5.07
Cdh Tj = +7 °C	0.97	0.98
., ., .,	0.07	





Pdh Tj = 12°C	3.1 kW	3.2 kW
COP Tj = 12°C	8.86	6.81
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	5.3 kW	5.3 kW
COP Tj = Tbiv	3.4	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.21 kW	5.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.02	2.14
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	0.79 kW	0.79 kW
Annual energy consumption Qhe	2484 kWh	3344 kWh

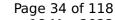
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	226 %	158 %
Prated	6 kW	6 kW
SCOP	5.73	4.02
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6 kW	6 kW
$COPTj = +2^{\circ}C$	3.75	1.85
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	3.9 kW	3.9 kW
$COPTj = +7^{\circ}C$	4.8	3.25
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.5	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	6 kW	6 kW
COP Tj = Tbiv	3.75	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.75	1.85
WTOL	60 °C	60 °C



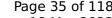


Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1400 kWh	1994 kWh

### Domestic Hot Water (DHW)

### **Average Climate**

EN 16147		
Declared load profile	L	
Efficiency ηDHW	145 %	
СОР	3.42	
Heating up time	01:58 h:min	
Standby power input	36 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	3.78	
Heating up time	02:28 h:min	
Standby power input	34 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



## Model: PUZ-WM60VAA(-BS)

Configure model		
Model name PUZ-WM60VAA(-BS)		
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

### Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	6 kW	6 kW
El input	1.19 kW	2.01 kW
СОР	5.06	2.98

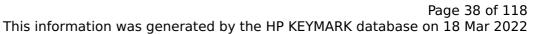
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

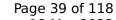
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	197 %	145 %
Prated	6 kW	6 kW
SCOP	4.99	3.71
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	5.3 kW	5.3 kW
COP Tj = -7°C	3.4	2.26
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.1 kW	3.5 kW
COP Tj = +2°C	4.84	3.56
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.3 kW	3.6 kW
COP Tj = +7°C	6.35	5.07
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	3.1 kW	3.2 kW
COP Tj = 12°C	8.86	6.81
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	5.3 kW	5.3 kW
COP Tj = Tbiv	3.4	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.21 kW	5.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.02	2.14
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	0.79 kW	0.79 kW
Annual energy consumption Qhe	2484 kWh	3344 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	226 %	158 %
Prated	6 kW	6 kW
SCOP	5.73	4.02
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = $+2$ °C	6 kW	6 kW
COP Tj = +2°C	3.75	1.85
Cdh Tj = +2 °C	0.99	1
Pdh Tj = $+7^{\circ}$ C	3.9 kW	3.9 kW
$COPTj = +7^{\circ}C$	4.8	3.25
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.5	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	6 kW	6 kW
COP Tj = Tbiv	3.75	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.75	1.85
WTOL	60 °C	60 °C



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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

Poff	15 W	15 W
PTO	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 kW	0 kW
Annual energy consumption Qhe	1400 kWh	1994 kWh



# Model: PUZ-WM85VAA(-BS) + EHPT20X-M\*D

Configure model		
Model name	PUZ-WM85VAA(-BS) + EHPT20X-M*D	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
СОР	4.8	2.82

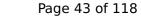
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

# Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

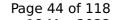
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	193 %	139 %
Prated	8.5 kW	8.5 kW
SCOP	4.89	3.54
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	4.6 kW	4.6 kW
COP Tj = +2°C	4.71	3.42
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.81	5
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3592 kWh	4958 kWh

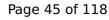
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	227 %	156 %
Prated	8.5 kW	8.5 kW
SCOP	5.76	3.98
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
$COP Tj = +2^{\circ}C$	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
$COPTj = +7^{\circ}C$	5	3.28
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.77	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C



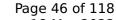


Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1972 kWh	2852 kWh

## Domestic Hot Water (DHW)

### **Average Climate**

EN 16147	
Declared load profile	L
Efficiency ηDHW	145 %
СОР	3.42
Heating up time	01:58 h:min
Standby power input	36 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278





EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
СОР	3.78
Heating up time	02:28 h:min
Standby power input	34 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



# Model: PUZ-WM85VAA(-BS) + EHPT20X-\*M\*D

Configure model		
Model name PUZ-WM85VAA(-BS) + EHPT20X-*M*D		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
СОР	4.8	2.82

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	58 dB(A)	58 dB(A)

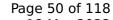
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	193 %	139 %
Prated	8.5 kW	8.5 kW
SCOP	4.89	3.54
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	4.6 kW	4.6 kW
COP Tj = +2°C	4.71	3.42
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.81	5
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3592 kWh	4958 kWh

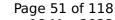
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	227 %	156 %
Prated	8.5 kW	8.5 kW
SCOP	5.76	3.98
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = $+2$ °C	8.5 kW	8.5 kW
COPTj = +2°C	3.51	1.88
Cdh Tj = $+2$ °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
$COP Tj = +7^{\circ}C$	5	3.28
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.77	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C



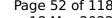


Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1972 kWh	2852 kWh

## Domestic Hot Water (DHW)

### **Average Climate**

EN 16147	
Declared load profile	L
Efficiency ηDHW	145 %
СОР	3.42
Heating up time	01:58 h:min
Standby power input	36 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278





# $$\operatorname{\textit{Page}}\xspace$ 52 of 118 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
СОР	3.78
Heating up time	02:28 h:min
Standby power input	34 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



# Model: PUZ-WM85VAA(-BS) + EHPX-M\*D

Configure model	
Model name PUZ-WM85VAA(-BS) + EHPX-M*D	
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data		
Power supply	1x230V 50Hz	

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
СОР	4.8	2.82

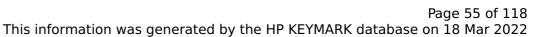
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

# Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

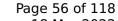
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	193 %	139 %
Prated	8.5 kW	8.5 kW
SCOP	4.89	3.54
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	4.6 kW	4.6 kW
$COP Tj = +2^{\circ}C$	4.71	3.42
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.81	5
Cdh Tj = +7 °C	0.97	0.98





3.2 kW	3.4 kW
	J
9.14	7.08
0.96	0.97
7.5 kW	7.5 kW
3.1	2.07
7.18 kW	7.18 kW
2.8	2.01
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
0 W	0 W
Electricity	Electricity
1.32 kW	1.32 kW
3592 kWh	4958 kWh
	0.96 7.5 kW 3.1 7.18 kW 2.8 60 °C 15 W 15 W 0 W Electricity 1.32 kW

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	227 %	156 %
Prated	8.5 kW	8.5 kW
SCOP	5.76	3.98
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
$COP Tj = +2^{\circ}C$	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
$COPTj = +7^{\circ}C$	5	3.28
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.77	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C



# $$\operatorname{\textit{Page}}\xspace$ 57 of 118 This information was generated by the HP KEYMARK database on 18 Mar 2022

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 kW	0 kW
Annual energy consumption Qhe	1972 kWh	2852 kWh



# Model: PUZ-WM85VAA(-BS) + EHPX-\*M\*D

Configure model		
Model name	PUZ-WM85VAA(-BS) + EHPX-*M*D	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

## Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
СОР	4.8	2.82

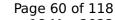
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

# Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

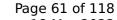
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	193 %	139 %
Prated	8.5 kW	8.5 kW
SCOP	4.89	3.54
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	4.6 kW	4.6 kW
COP Tj = +2°C	4.71	3.42
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.81	5
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3592 kWh	4958 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	227 %	156 %
Prated	8.5 kW	8.5 kW
SCOP	5.76	3.98
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
$COP Tj = +2^{\circ}C$	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
$COPTj = +7^{\circ}C$	5	3.28
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.77	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C



# $$\operatorname{\textit{Page}}\xspace$ 62 of 118 This information was generated by the HP KEYMARK database on 18 Mar 2022

Poff	15 W	15 W
PTO	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 kW	0 kW
Annual energy consumption Qhe	1972 kWh	2852 kWh



# Model: PUZ-WM85VAA(-BS) + ERPT20X-M\*D

Configure model		
Model name	PUZ-WM85VAA(-BS) + ERPT20X-M*D	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
СОР	4.8	2.82

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	58 dB(A)	58 dB(A)

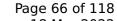
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	197 %	141 %
Prated	8.5 kW	8.5 kW
SCOP	5	3.6
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	4.6 kW	4.6 kW
COP Tj = +2°C	4.77	3.45
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.81	5
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3515 kWh	4881 kWh

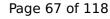
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	234 %	159 %
Prated	8.5 kW	8.5 kW
SCOP	5.92	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
$COPTj = +7^{\circ}C$	4.92	3.24
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.77	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C



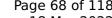


Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1920 kWh	2802 kWh

## Domestic Hot Water (DHW)

## Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	145 %	
СОР	3.42	
Heating up time	01:58 h:min	
Standby power input	36 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	3.78	
Heating up time	02:28 h:min	
Standby power input	34 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



# Model: PUZ-WM85VAA(-BS) + ERPT20X-\*M\*D

Configure model		
Model name	PUZ-WM85VAA(-BS) + ERPT20X-*M*D	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

## Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8.5 kW	8.5 kW	
El input	1.77 kW	3.01 kW	
СОР	4.8	2.82	

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	58 dB(A)	58 dB(A)

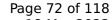
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	197 %	141 %
Prated	8.5 kW	8.5 kW
SCOP	5	3.6
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = $-7^{\circ}$ C	3.1	2.07
Cdh Tj = -7 °C	0.99	1
Pdh Tj = $+2$ °C	4.6 kW	4.6 kW
COP Tj = +2°C	4.77	3.45
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.81	5
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3515 kWh	4881 kWh

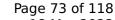
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	234 %	159 %
Prated	8.5 kW	8.5 kW
SCOP	5.92	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
COP Tj = +7°C	4.92	3.24
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.77	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C



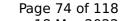


Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1920 kWh	2802 kWh

## Domestic Hot Water (DHW)

## **Average Climate**

EN 16147	
Declared load profile	L
Efficiency ηDHW	145 %
СОР	3.42
Heating up time	01:58 h:min
Standby power input	36 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278





EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
СОР	3.78
Heating up time	02:28 h:min
Standby power input	34 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



# Model: PUZ-WM85VAA(-BS)

Configure model		
Model name PUZ-WM85VAA(-BS)		
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

## Heating

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
СОР	4.8	2.82

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	58 dB(A)	58 dB(A)

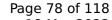
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	197 %	141 %
Prated	8.5 kW	8.5 kW
SCOP	5	3.6
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	1
Pdh Tj = $+2^{\circ}$ C	4.6 kW	4.6 kW
COP Tj = +2°C	4.77	3.45
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.81	5
Cdh Tj = +7 °C	0.97	0.98





3.2 kW	3.4 kW
9.14	7.08
0.96	0.97
7.5 kW	7.5 kW
3.1	2.07
7.18 kW	7.18 kW
2.8	2.01
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
0 W	0 W
Electricity	Electricity
1.32 kW	1.32 kW
3515 kWh	4881 kWh
	9.14  0.96  7.5 kW  3.1  7.18 kW  2.8  60 °C  15 W  15 W  0 W  Electricity  1.32 kW

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	234 %	159 %
Prated	8.5 kW	8.5 kW
SCOP	5.92	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = $+2$ °C	8.5 kW	8.5 kW
$COPTj = +2^{\circ}C$	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = $+7^{\circ}$ C	5.5 kW	5.5 kW
$COPTj = +7^{\circ}C$	4.92	3.24
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.77	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C



# $$\operatorname{\textit{Page}}\ 79$$ of 118 This information was generated by the HP KEYMARK database on 18 Mar 2022

Poff	15 W	15 W
PTO	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 kW	0 kW
Annual energy consumption Qhe	1920 kWh	2802 kWh



# Model: PUZ-WM85YAA(-BS) + EHPT20X-M\*D

Configure model		
Model name	PUZ-WM85YAA(-BS) + EHPT20X-M*D	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
СОР	4.8	2.82

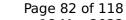
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

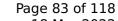
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	190 %	138 %
Prated	8.5 kW	8.5 kW
SCOP	4.84	3.52
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2$ °C	4.6 kW	4.6 kW
COP Tj = +2°C	4.69	3.42
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.82	5
Cdh Tj = +7 °C	0.97	0.97





Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.95
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3632 kWh	4994 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	224 %	155 %
Prated	8.5 kW	8.5 kW
SCOP	5.69	3.94
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = $+2$ °C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
$COPTj = +7^{\circ}C$	5.1	3.31
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.78	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C



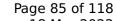


Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1997 kWh	2882 kWh

## Domestic Hot Water (DHW)

## Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	145 %	
СОР	3.42	
Heating up time	01:58 h:min	
Standby power input	36 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	





EN 16147		
Declared load profile	L	
Efficiency ηDHW	161 %	
СОР	3.78	
Heating up time	02:28 h:min	
Standby power input	34 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



# Model: PUZ-WM85YAA(-BS) + EHPT20X-\*M\*D

Configure model		
Model name	PUZ-WM85YAA(-BS) + EHPT20X-*M*D	
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
Climate Zone Warmer Climate		
Reversibility	No	
Cooling mode application (optional)	n/a	

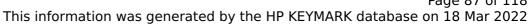
General Data		
Power supply	3x400V 50Hz	

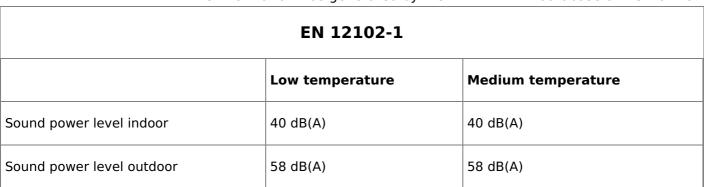
## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
СОР	4.8	2.82

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**





CEN heat pump

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	190 %	138 %
Prated	8.5 kW	8.5 kW
SCOP	4.84	3.52
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.6 kW	4.6 kW
COP Tj = +2°C	4.69	3.42
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.82	5
Cdh Tj = +7 °C	0.97	0.97
	•	•

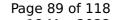




This information was	generated by	the HP KEYMARK	database on 18	Mar 2022

Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.95
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3632 kWh	4994 kWh

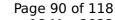
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	
Sound power level outdoor	58 dB(A)	58 dB(A)	





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	224 %	155 %
Prated	8.5 kW	8.5 kW
SCOP	5.69	3.94
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
$COPTj = +7^{\circ}C$	5.1	3.31
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.78	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C



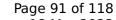


Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1997 kWh	2882 kWh

## Domestic Hot Water (DHW)

## **Average Climate**

EN 16147		
Declared load profile	L	
Efficiency ηDHW	145 %	
СОР	3.42	
Heating up time	01:58 h:min	
Standby power input	36 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	





EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
СОР	3.78
Heating up time	02:28 h:min
Standby power input	34 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



# Model: PUZ-WM85YAA(-BS) + EHPX-M\*D

Configure model	
Model name	PUZ-WM85YAA(-BS) + EHPX-M*D
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data		
Power supply	3x400V 50Hz	

## Heating

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
СОР	4.8	2.82

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	58 dB(A)	58 dB(A)

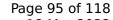
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	190 %	138 %
Prated	8.5 kW	8.5 kW
SCOP	4.84	3.52
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
$COPTj = -7^{\circ}C$	3.1	2.07
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2$ °C	4.6 kW	4.6 kW
$COP Tj = +2^{\circ}C$	4.69	3.42
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.2 kW	3.7 kW
$COP Tj = +7^{\circ}C$	6.82	5
Cdh Tj = +7 °C	0.97	0.97





Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.95
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3632 kWh	4994 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	224 %	155 %
Prated	8.5 kW	8.5 kW
SCOP	5.69	3.94
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = $+2$ °C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = $+7^{\circ}$ C	5.5 kW	5.5 kW
$COPTj = +7^{\circ}C$	5.1	3.31
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.78	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C



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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

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 kW	0 kW
Annual energy consumption Qhe	1997 kWh	2882 kWh



# Model: PUZ-WM85YAA(-BS) + EHPX-\*M\*D

Configure model	
Model name	PUZ-WM85YAA(-BS) + EHPX-*M*D
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data		
Power supply	3x400V 50Hz	

## Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8.5 kW	8.5 kW	
El input	1.77 kW	3.01 kW	
СОР	4.8	2.82	

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	58 dB(A)	58 dB(A)

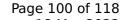
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	190 %	138 %
Prated	8.5 kW	8.5 kW
SCOP	4.84	3.52
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2$ °C	4.6 kW	4.6 kW
COP Tj = +2°C	4.69	3.42
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.82	5
Cdh Tj = +7 °C	0.97	0.97





Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.95
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3632 kWh	4994 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	224 %	155 %
Prated	8.5 kW	8.5 kW
SCOP	5.69	3.94
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = $+2$ °C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = $+7^{\circ}$ C	5.5 kW	5.5 kW
$COPTj = +7^{\circ}C$	5.1	3.31
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.78	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
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	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1997 kWh	2882 kWh



# Model: PUZ-WM85YAA(-BS) + ERPT20X-M\*D

Configure model		
Model name PUZ-WM85YAA(-BS) + ERPT20X-M*D		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

## Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8.5 kW	8.5 kW	
El input	1.77 kW	3.01 kW	
СОР	4.8	2.82	

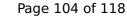
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	197 %	141 %
Prated	8.5 kW	8.5 kW
SCOP	5	3.6
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
$COPTj = -7^{\circ}C$	3.1	2.07
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2$ °C	4.6 kW	4.6 kW
COP Tj = +2°C	4.79	3.46
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = $+7^{\circ}$ C	3.2 kW	3.7 kW
COP Tj = +7°C	6.81	5
Cdh Tj = +7 °C	0.97	0.97

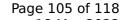




Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.95
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.32 kW	1.32 kW
Annual energy consumption Qhe	3514 kWh	4884 kWh

## Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 40 dB(A) 40 dB(A) Sound power level outdoor 58 dB(A) 58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	234 %	159 %
Prated	8.5 kW	8.5 kW
SCOP	5.91	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = $+7^{\circ}$ C	5.5 kW	5.5 kW
COP Tj = +7°C	4.98	3.26
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.78	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C



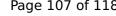


Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1920 kWh	2805 kWh

## Domestic Hot Water (DHW)

## Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	145 %	
СОР	3.42	
Heating up time	01:58 h:min	
Standby power input	36 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	





# $$\operatorname{\textit{Page}}\xspace$ 107 of 118 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	L	
Efficiency ηDHW	161 %	
СОР	3.78	
Heating up time	02:28 h:min	
Standby power input	34 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



# Model: PUZ-WM85YAA(-BS) + ERPT20X-\*M\*D

Configure model		
Model name	PUZ-WM85YAA(-BS) + ERPT20X-*M*D	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
СОР	4.8	2.82

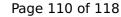
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

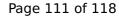
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	197 %	141 %
Prated	8.5 kW	8.5 kW
SCOP	5	3.6
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2$ °C	4.6 kW	4.6 kW
COP Tj = +2°C	4.79	3.46
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.81	5
Cdh Tj = +7 °C	0.97	0.97





Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.95
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3514 kWh	4884 kWh

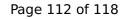
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	234 %	159 %
Prated	8.5 kW	8.5 kW
SCOP	5.91	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = $+7^{\circ}$ C	5.5 kW	5.5 kW
COP Tj = +7°C	4.98	3.26
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.78	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C



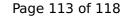


Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1920 kWh	2805 kWh

## Domestic Hot Water (DHW)

## **Average Climate**

EN 16147		
Declared load profile	L	
Efficiency ηDHW	145 %	
СОР	3.42	
Heating up time	01:58 h:min	
Standby power input	36 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	





EN 16147		
Declared load profile	L	
Efficiency ηDHW	161 %	
СОР	3.78	
Heating up time	02:28 h:min	
Standby power input	34 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



# Model: PUZ-WM85YAA(-BS)

Configure model		
Model name	PUZ-WM85YAA(-BS)	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
СОР	4.8	2.82

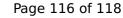
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

# Average Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	
Sound power level outdoor	58 dB(A)	58 dB(A)	

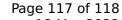
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	197 %	141 %
Prated	8.5 kW	8.5 kW
SCOP	5	3.6
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2$ °C	4.6 kW	4.6 kW
COP Tj = +2°C	4.79	3.46
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = $+7^{\circ}$ C	3.2 kW	3.7 kW
COP Tj = +7°C	6.81	5
Cdh Tj = +7 °C	0.97	0.97





Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.95
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3514 kWh	4884 kWh

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	
Sound power level outdoor	58 dB(A)	58 dB(A)	





#### EN 14825

	Low temperature	Medium temperature
$\eta_{S}$	234 %	159 %
Prated	8.5 kW	8.5 kW
SCOP	5.91	4.05
Tbiv	2 °C	2 °C
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Cdh Tj = +2 °C	0.99	1
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$COP Tj = +7^{\circ}C$	4.98	3.26
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.78	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C



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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

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 kW	0 kW
Annual energy consumption Qhe	1920 kWh	2805 kWh