

# $$\operatorname{\textit{Page}}\ 1$$ of 133 This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	Ecodan Power Inverter 10 AA	Reg. No.	037-0050-20
Certificate Holder			
Name	Mitsubishi Electric Air Conditioning Systems Euro	pe LTD	
Address	Nettlehill Road, Houston Industrial Estate	Zip	EH54 5EQ
City	Livingston	Country	United Kingdom
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering T	est Institut	e, Public Enterprise)
Name of testing laboratory	RISE Research Institute of Sweden		
Subtype title	Ecodan Power Inverter 10 AA		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	4.2 kg		
Certification Date	09.04.2020		
Testing basis	HP Keymark scheme rules rev. no. 7		



### Model: PUHZ-SW100VAA(-BS) + EHSC-M\*C

General Data	
Power supply	1x230V 50Hz

#### Heating

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

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	167 %	130 %
Prated	10.60 kW	10.00 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.97	0.98
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.97	0.98
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.97	0.98



Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	5026 kWh	6089 kWh



### Model: PUHZ-SW100VAA(-BS) + EHSC-VM\*C

General Data	
Power supply	1x230V 50Hz

#### Heating

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

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	167 %	130 %
Prated	10.60 kW	10.00 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.97	0.98
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.97	0.98
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.97	0.98



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Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	5026 kWh	6089 kWh



### Model: PUHZ-SW100VAA(-BS) + EHSC-YM\*C

General Data	
Power supply	3x400V 50Hz

#### Heating

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

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	167 %	130 %
Prated	10.60 kW	10.00 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.97	0.98
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.97	0.98
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.97	0.98



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Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	5026 kWh	6089 kWh



### Model: PUHZ-SW100VAA(-BS) + EHST20C-M\*C

General Data	
Power supply	1x230V 50Hz

#### Heating

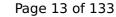
EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71
Indoor water flow rate	1.93 m³/h	1.20 m³/h

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



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

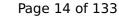
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	167 %	130 %
Prated	10.60 kW	10.00 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.97	0.98
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.97	0.98
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.97	0.98





Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	5026 kWh	6089 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	103 %	
СОР	2.45	
Heating up time	01:57 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



### Model: PUHZ-SW100VAA(-BS) + EHST20C-VM\*C

General Data		
Power supply	1x230V 50Hz	

#### Heating

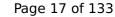
EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71
Indoor water flow rate	1.93 m³/h	1.20 m³/h

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



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

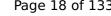
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	167 %	130 %
Prated	10.60 kW	10.00 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.97	0.98
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.97	0.98
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.97	0.98





Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	5026 kWh	6089 kWh

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	103 %	
СОР	2.45	
Heating up time	01:57 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



### Model: PUHZ-SW100VAA(-BS) + EHST20C-YM\*C

General Data		
Power supply	3x400V 50Hz	

#### Heating

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

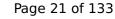
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



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

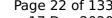
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	167 %	130 %
Prated	10.60 kW	10.00 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.97	0.98
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.97	0.98
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.97	0.98





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Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	5026 kWh	6089 kWh

Domestic Hot Water (DHW)





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EN 16147	
Declared load profile	L
Efficiency ηDHW	103 %
СОР	2.45
Heating up time	01:57 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



### Model: PUHZ-SW100VAA(-BS) + ERSC-M\*C

General Data	
Power supply 1x230V 50Hz	

#### Heating

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

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



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

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



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Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	5026 kWh	6089 kWh



### Model: PUHZ-SW100VAA(-BS) + ERSC-VM\*C

General Data	
Power supply 1x230V 50Hz	

#### Heating

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

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



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

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



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4.30 kW	5.30 kW
7.47	6.12
0.97	0.98
9.40 kW	8.90 kW
2.75	1.95
7.50 kW	7.50 kW
1.42	1.49
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
o w	o w
electricity	electricity
1.60 kW	1.40 kW
5026 kWh	6089 kWh
	7.47  0.97  9.40 kW  2.75  7.50 kW  1.42  60 °C  15 W  15 W  0 W  electricity  1.60 kW



### Model: PUHZ-SW100VAA(-BS) + ERST20C-M\*C

General Data		
Power supply	1x230V 50Hz	

#### Heating

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

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



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

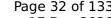
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	170 %	132 %
Prated	10.60 kW	10.00 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.97	0.98
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.97	0.98
Pdh Tj = +7°C	4.50 kW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



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Teracea by the rin Reini	
4.30 kW	5.30 kW
7.47	6.12
0.97	0.98
9.40 kW	8.90 kW
2.75	1.95
7.50 kW	7.50 kW
1.42	1.49
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
o w	o w
electricity	electricity
1.60 kW	1.40 kW
5026 kWh	6089 kWh
	4.30 kW 7.47 0.97 9.40 kW 2.75 7.50 kW 1.42 60 °C 15 W 15 W 0 W electricity 1.60 kW

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	103 %	
СОР	2.45	
Heating up time	01:57 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



### Model: PUHZ-SW100VAA(-BS) + ERST20C-VM\*C

General Data		
Power supply	1x230V 50Hz	

#### Heating

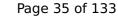
EN 14511-2				
	Low temperature	Medium temperature		
Heat output	11.20 kW	11.20 kW		
El input	2.51 kW	4.13 kW		
СОР	4.46	2.71		
Indoor water flow rate	1.93 m³/h	1.20 m³/h		

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



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

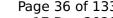
EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	170 %	132 %	
Prated	10.60 kW	10.00 kW	
SCOP	4.32	3.37	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	9.40 kW	8.90 kW	
COP Tj = -7°C	2.75	1.95	
Cdh	0.97	0.98	
Pdh Tj = +2°C	5.70 kW	5.40 kW	
COP Tj = +2°C	4.21	3.22	
Cdh	0.97	0.98	
Pdh Tj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





Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	5026 kWh	6089 kWh

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	103 %	
СОР	2.45	
Heating up time	01:57 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



## Model: PUHZ-SW100YAA(-BS) + EHSC-M\*C

General Data	
Power supply 3x400V 50Hz	

## Heating

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

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	129 %
Prated	10.60 kW	10.00 kW
SCOP	4.21	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.96	0.97
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.96	0.97
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.96	0.97



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4.30 kW	5.30 kW
7.47	6.12
0.96	0.97
9.40 kW	8.90 kW
2.75	1.95
7.50 kW	7.50 kW
1.42	1.49
60 °C	60 °C
22 W	22 W
22 W	22 W
22 W	22 W
0 W	0 W
electricity	electricity
1.60 kW	1.40 kW
5035 kWh	6101 kWh
	7.47  0.96  9.40 kW  2.75  7.50 kW  1.42  60 °C  22 W  22 W  0 W  electricity  1.60 kW



## Model: PUHZ-SW100YAA(-BS) + EHSC-VM\*C

General Data	
Power supply 3x400V 50Hz	

## Heating

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

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	129 %
Prated	10.60 kW	10.00 kW
SCOP	4.21	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.96	0.97
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.96	0.97
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.96	0.97



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

Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.96	0.97
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh



## Model: PUHZ-SW100YAA(-BS) + EHSC-YM\*C

General Data	
Power supply 3x400V 50Hz	

## Heating

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

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	129 %
Prated	10.60 kW	10.00 kW
SCOP	4.21	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.96	0.97
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.96	0.97
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.96	0.97



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Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.96	0.97
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh



## Model: PUHZ-SW100YAA(-BS) + EHST20C-M\*C

General Data	
Power supply 3x400V 50Hz	

## Heating

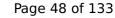
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	11.20 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	
Indoor water flow rate	1.93 m³/h	1.20 m³/h	

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	129 %
Prated	10.60 kW	10.00 kW
SCOP	4.21	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.96	0.97
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.96	0.97
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.96	0.97





Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.96	0.97
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	103 %	
СОР	2.45	
Heating up time	01:57 h:min	
Standby power input	46.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



## Model: PUHZ-SW100YAA(-BS) + EHST20C-VM\*C

General Data		
Power supply 3x400V 50Hz		

## Heating

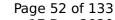
EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71
Indoor water flow rate	1.93 m³/h	1.20 m³/h

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



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

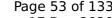
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	129 %
Prated	10.60 kW	10.00 kW
SCOP	4.21	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.96	0.97
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.96	0.97
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.96	0.97





Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.96	0.97
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	103 %	
СОР	2.45	
Heating up time	01:57 h:min	
Standby power input	46.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	

## Model: PUHZ-SW100YAA(-BS) + EHST20C-YM\*C

General Data		
Power supply 3x400V 50Hz		

## Heating

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

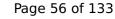
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



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

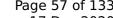
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	129 %
Prated	10.60 kW	10.00 kW
SCOP	4.21	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.96	0.97
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.96	0.97
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.96	0.97





Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.96	0.97
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	103 %	
СОР	2.45	
Heating up time	01:57 h:min	
Standby power input	46.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



## Model: PUHZ-SW100YAA(-BS) + ERSC-M\*C

General Data	
Power supply	3x400V 50Hz

## Heating

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

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	169 %	132 %
Prated	10.60 kW	10.00 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.96	0.97
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.96	0.97
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.96	0.97



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Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.96	0.97
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh



## Model: PUHZ-SW100YAA(-BS) + ERSC-VM\*C

General Data	
Power supply	3x400V 50Hz

## Heating

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

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	169 %	132 %
Prated	10.60 kW	10.00 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.96	0.97
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.96	0.97
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.96	0.97



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4.30 kW	5.30 kW
7.47	6.12
0.96	0.97
9.40 kW	8.90 kW
2.75	1.95
7.50 kW	7.50 kW
1.42	1.49
60 °C	60 °C
22 W	22 W
22 W	22 W
22 W	22 W
0 W	0 W
electricity	electricity
1.60 kW	1.40 kW
5035 kWh	6101 kWh
	7.47  0.96  9.40 kW  2.75  7.50 kW  1.42  60 °C  22 W  22 W  0 W  electricity  1.60 kW



## Model: PUHZ-SW100YAA(-BS) + ERST20C-M\*C

General Data	
Power supply 3x400V 50Hz	

## Heating

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

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



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

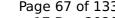
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	169 %	132 %
Prated	10.60 kW	10.00 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.96	0.97
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.96	0.97
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.96	0.97





Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.96	0.97
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh

Domestic Hot Water (DHW)





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EN 16147	
Declared load profile	L
Efficiency ηDHW	103 %
СОР	2.45
Heating up time	01:57 h:min
Standby power input	46.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



## Model: PUHZ-SW100YAA(-BS) + ERST20C-VM\*C

General Data	
Power supply 3x400V 50Hz	

## Heating

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

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

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

CEN heat pump KEYMARK

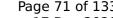
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	169 %	132 %
Prated	10.60 kW	10.00 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.96	0.97
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.96	0.97
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.96	0.97





-	, database 0 1, Bee 202
4.30 kW	5.30 kW
7.47	6.12
0.96	0.97
9.40 kW	8.90 kW
2.75	1.95
7.50 kW	7.50 kW
1.42	1.49
60 °C	60 °C
22 W	22 W
22 W	22 W
22 W	22 W
o w	o w
electricity	electricity
1.60 kW	1.40 kW
5035 kWh	6101 kWh
	7.47  0.96  9.40 kW  2.75  7.50 kW  1.42  60 °C  22 W  22 W  0 W  electricity  1.60 kW

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	103 %	
СОР	2.45	
Heating up time	01:57 h:min	
Standby power input	46.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



## Model: PUHZ-SW100VAA(-BS) + EHST20C-M\*D

General Data	
Power supply	1x230V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.52 kW	4.31 kW
СОР	4.45	2.60
Indoor water flow rate	1.93 m³/h	1.21 m³/h

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



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

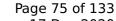
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	167 %	130 %
Prated	10.60 kW	10.00 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.99	0.99
Pdh Tj = +7°C	4.50 kW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





Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5026 kWh	6089 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	145 %
СОР	3.41
Heating up time	01:58 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278

## Model: PUHZ-SW100VAA(-BS) + EHST20C-VM\*D

General Data		
Power supply	1x230V 50Hz	

### Heating

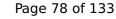
EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.52 kW	4.31 kW
СОР	4.45	2.60
Indoor water flow rate	1.93 m³/h	1.21 m³/h

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



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

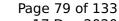
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	167 %	130 %
Prated	10.60 kW	10.00 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.99	0.99
Pdh Tj = +7°C	4.50 kW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





Teracea by the rin Reini	
4.30 kW	5.30 kW
7.47	6.12
0.97	0.98
9.40 kW	8.90 kW
2.75	1.95
7.50 kW	7.50 kW
1.42	1.49
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
o w	o w
electricity	electricity
1.64 kW	1.42 kW
5026 kWh	6089 kWh
	4.30 kW 7.47 0.97 9.40 kW 2.75 7.50 kW 1.42 60 °C 15 W 15 W 0 W electricity 1.64 kW

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	145 %
СОР	3.41
Heating up time	01:58 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278

## Model: PUHZ-SW100VAA(-BS) + EHST20C-YM\*D

General Data	
Power supply	3x400V 50Hz

### Heating

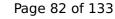
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	11.20 kW	
El input	2.52 kW	4.31 kW	
СОР	4.45	2.60	
Indoor water flow rate	1.93 m³/h	1.21 m³/h	

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



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

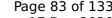
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	167 %	130 %
Prated	10.60 kW	10.00 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.99	0.99
Pdh Tj = +7°C	4.50 kW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





Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5026 kWh	6089 kWh

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	145 %	
СОР	3.41	
Heating up time	01:58 h:min	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



## Model: PUHZ-SW100VAA(-BS) + EHSC-M\*D

General Data		
Power supply	1x230V 50Hz	

### Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	11.20 kW	
El input	2.52 kW	4.31 kW	
СОР	4.45	2.60	
Indoor water flow rate	1.93 m³/h	1.21 m³/h	

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



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

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



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4.30 kW	5.30 kW
7.47	6.12
0.97	0.98
9.40 kW	8.90 kW
2.75	1.95
7.50 kW	7.50 kW
1.42	1.49
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
0 W	0 W
electricity	electricity
1.64 kW	1.42 kW
5026 kWh	6089 kWh
	7.47  0.97  9.40 kW  2.75  7.50 kW  1.42  60 °C  15 W  15 W  0 W  electricity  1.64 kW



## Model: PUHZ-SW100VAA(-BS) + EHSC-VM\*D

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	11.20 kW	
El input	2.52 kW	4.31 kW	
СОР	4.45	2.60	
Indoor water flow rate	1.93 m³/h	1.21 m³/h	

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



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

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



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4.30 kW	5.30 kW
7.47	6.12
0.97	0.98
9.40 kW	8.90 kW
2.75	1.95
7.50 kW	7.50 kW
1.42	1.49
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
0 W	0 W
electricity	electricity
1.64 kW	1.42 kW
5026 kWh	6089 kWh
	7.47  0.97  9.40 kW  2.75  7.50 kW  1.42  60 °C  15 W  15 W  0 W  electricity  1.64 kW



## Model: PUHZ-SW100VAA(-BS) + EHSC-YM\*D

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	11.20 kW	
El input	2.52 kW	4.31 kW	
СОР	4.45	2.60	
Indoor water flow rate	1.93 m³/h	1.21 m³/h	

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



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

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



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Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5026 kWh	6089 kWh



## Model: PUHZ-SW100VAA(-BS) + ERST20C-VM\*D

General Data	
Power supply	1x230V 50Hz

### Heating

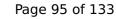
EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.52 kW	4.31 kW
СОР	4.45	2.60
Indoor water flow rate	1.93 m³/h	1.21 m³/h

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



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

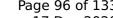
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	170 %	132 %
Prated	10.60 kW	10.00 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.99	0.99
Pdh Tj = +7°C	4.50 kW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





Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5026 kWh	6089 kWh

Domestic Hot Water (DHW)





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EN 16147	
Declared load profile	L
Efficiency ηDHW	145 %
СОР	3.41
Heating up time	01:58 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



## Model: PUHZ-SW100VAA(-BS) + ERSC-M\*D

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.52 kW	4.31 kW
СОР	4.45	2.60
Indoor water flow rate	1.93 m³/h	1.21 m³/h

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



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

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



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Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5026 kWh	6089 kWh



## Model: PUHZ-SW100VAA(-BS) + ERSC-VM\*D

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.52 kW	4.31 kW
СОР	4.45	2.60
Indoor water flow rate	1.93 m³/h	1.21 m³/h

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

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

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



# $$\operatorname{\textit{Page}}\ 102$ of 133$$ This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5026 kWh	6089 kWh



## Model: PUHZ-SW100YAA(-BS) + EHST20C-M\*D

General Data	
Power supply	3x400V 50Hz

### Heating

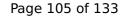
EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.52 kW	4.31 kW
СОР	4.45	2.60
Indoor water flow rate	1.93 m³/h	1.21 m³/h

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	129 %
Prated	10.60 kW	10.00 kW
SCOP	4.21	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.98	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.97	0.98





Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.96	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	145 %
СОР	3.41
Heating up time	01:58 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



## Model: PUHZ-SW100YAA(-BS) + EHST20C-VM\*D

Genera	al Data
Power supply	3x400V 50Hz

### Heating

	EN 14511-2	
	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.52 kW	4.31 kW
СОР	4.45	2.60
Indoor water flow rate	1.93 m³/h	1.21 m³/h

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



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

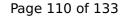
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	129 %
Prated	10.60 kW	10.00 kW
SCOP	4.21	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.98	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.97	0.98





Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.96	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	145 %	
СОР	3.41	
Heating up time	01:58 h:min	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



# Model: PUHZ-SW100YAA(-BS) + EHST20C-YM\*D

General Data	
Power supply	3x400V 50Hz

# Heating

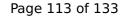
EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.52 kW	4.31 kW
СОР	4.45	2.60
Indoor water flow rate	1.93 m³/h	1.21 m³/h

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



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

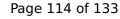
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	129 %
Prated	10.60 kW	10.00 kW
SCOP	4.21	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.98	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.97	0.98





Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.96	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	145 %	
СОР	3.41	
Heating up time	01:58 h:min	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



# Model: PUHZ-SW100YAA(-BS) + EHSC-M\*D

General Data	
Power supply	3x400V 50Hz

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.52 kW	4.31 kW
СОР	4.45	2.60
Indoor water flow rate	1.93 m³/h	1.21 m³/h

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	129 %
Prated	10.60 kW	10.00 kW
SCOP	4.21	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.98	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.97	0.98



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4.30 kW	5.30 kW
7.47	6.12
0.96	0.98
9.40 kW	8.90 kW
2.75	1.95
7.50 kW	7.50 kW
1.42	1.49
60 °C	60 °C
22 W	22 W
22 W	22 W
22 W	22 W
0 W	0 W
electricity	electricity
1.64 kW	1.42 kW
5035 kWh	6101 kWh
	7.47  0.96  9.40 kW  2.75  7.50 kW  1.42  60 °C  22 W  22 W  0 W  electricity  1.64 kW



# Model: PUHZ-SW100YAA(-BS) + EHSC-VM\*D

General Data	
Power supply	3x400V 50Hz

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.52 kW	4.31 kW
СОР	4.45	2.60
Indoor water flow rate	1.93 m³/h	1.21 m³/h

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	129 %
Prated	10.60 kW	10.00 kW
SCOP	4.21	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.98	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.97	0.98



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Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.96	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh



# Model: PUHZ-SW100YAA(-BS) + EHSC-YM\*D

General Data	
Power supply	3x400V 50Hz

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.52 kW	4.31 kW
СОР	4.45	2.60
Indoor water flow rate	1.93 m³/h	1.21 m³/h

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	129 %
Prated	10.60 kW	10.00 kW
SCOP	4.21	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.98	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.97	0.98



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Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.96	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh



# Model: PUHZ-SW100YAA(-BS) + ERST20C-VM\*D

General Data	
Power supply 3x400V 50Hz	

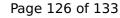
# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.52 kW	4.31 kW
СОР	4.45	2.60
Indoor water flow rate	1.93 m³/h	1.21 m³/h

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

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

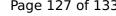
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	169 %	132 %
Prated	10.60 kW	10.00 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.98	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.97	0.98





Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.96	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh

Domestic Hot Water (DHW)





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EN 16147	
Declared load profile	L
Efficiency ηDHW	145 %
СОР	3.41
Heating up time	01:58 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



# Model: PUHZ-SW100YAA(-BS) + ERSC-M\*D

General Data	
Power supply 3x400V 50Hz	

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.52 kW	4.31 kW
СОР	4.45	2.60
Indoor water flow rate	1.93 m³/h	1.21 m³/h

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	169 %	132 %
Prated	10.60 kW	10.00 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.98	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.97	0.98



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Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.96	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh



# Model: PUHZ-SW100YAA(-BS) + ERSC-VM\*D

General Data		
Power supply	3x400V 50Hz	

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	11.20 kW	
El input	2.52 kW	4.31 kW	
СОР	4.45	2.60	
Indoor water flow rate	1.93 m³/h	1.21 m³/h	

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	169 %	132 %
Prated	10.60 kW	10.00 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh	0.99	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh	0.98	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh	0.97	0.98



# $$\operatorname{\textit{Page}}\ 133$$ of 133 This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh	0.96	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.42	1.49
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh