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Summary of	Ecodan Zubadan 8/11 AA	Reg. No.	037-0058-20	
Certificate Holder				
Name	Mitsubishi Electric Air Conditioning Systems Europe LTD			
Address	Nettlehill Road, Houston Industrial Estate	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 Zubadan 8/11 AA			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	4.6 kg			
Certification Date	09.04.2020			
Testing basis	HP Keymark scheme rules rev. no. 7			



Model: PUHZ-SHW80VAA(-BS) + EHST20C-M*C

Configure model		
Model name PUHZ-SHW80VAA(-BS) + EHST20C-M*C		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone n/a		
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 kW	8 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.7

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

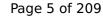
EN 14825		
	Low temperature	Medium temperature
η_{S}	169 %	133 %
Prated	9.6 kW	9 kW
SCOP	4.31	3.4
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7° C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = $+2$ °C	5.2 kW	4.9 kW
COP Tj = +2°C	4.05	3.29
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.66
Cdh Tj = +7 °C	0.97	0.98
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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4602 kWh	5465 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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUHZ-SHW80VAA(-BS) + EHST20C-*M*C

Configure model		
Model name PUHZ-SHW80VAA(-BS) + EHST20C-*M*C		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
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 kW	8 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.7

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





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
temperature		
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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4602 kWh	5465 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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	

Model: PUHZ-SHW80VAA(-BS) + ERST20C-M*C

Configure model		
Model name	PUHZ-SHW80VAA(-BS) + ERST20C-M*C	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
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 kW	8 kW	
El input	1.72 kW	2.96 kW	
СОР	4.65	2.7	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

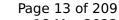
EN 14825		
	Low temperature	Medium temperature
η_{s}	172 %	135 %
Prated	9.6 kW	9 kW
SCOP	4.38	3.45
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.08	3.31
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.66
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4531 kWh	5393 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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUHZ-SHW80VAA(-BS) + ERST20C-*M*C

Configure model		
Model name PUHZ-SHW80VAA(-BS) + ERST20C-*M*C		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone n/a		
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 kW	8 kW	
El input	1.72 kW	2.96 kW	
СОР	4.65	2.7	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

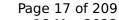
EN 14825		
	Low temperature	Medium temperature
η_{s}	172 %	135 %
Prated	9.6 kW	9 kW
SCOP	4.38	3.45
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.08	3.31
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.66
Cdh Tj = +7 °C	0.97	0.98





5.6 kW	5.3 kW
7.53	5.92
0.97	0.98
8.5 kW	8 kW
3.15	2.13
8.36 kW	7.93 kW
2.91	2.05
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
0 W	0 W
Electricity	Electricity
1.24 kW	1.07 kW
4531 kWh	5393 kWh
	7.53 0.97 8.5 kW 3.15 8.36 kW 2.91 60 °C 15 W 15 W 0 W Electricity 1.24 kW

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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUHZ-SHW80VAA(-BS) + EHSC-M*C

Configure model		
Model name PUHZ-SHW80VAA(-BS) + EHSC-M*C		
Application Heating (medium temp)		
Units Indoor + Outdoor		
Climate Zone n/a		
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 kW	8 kW	
El input	1.72 kW	2.96 kW	
СОР	4.65	2.7	

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



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	169 %	133 %
Prated	9.6 kW	9 kW
SCOP	4.31	3.4
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.05	3.29
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.66
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4602 kWh	5465 kWh



Model: PUHZ-SHW80VAA(-BS) + EHSC-*M*C

Configure model	
Model name	PUHZ-SHW80VAA(-BS) + EHSC-*M*C
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
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 kW	8 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.7

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

	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	169 %	133 %
Prated	9.6 kW	9 kW
SCOP	4.31	3.4
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.05	3.29
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.66
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4602 kWh	5465 kWh



Model: PUHZ-SHW80VAA(-BS) + ERSC-M*C

Configure model		
Model name	PUHZ-SHW80VAA(-BS) + ERSC-M*C	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
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 kW	8 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.7

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	172 %	135 %
Prated	9.6 kW	9 kW
SCOP	4.38	3.45
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.08	3.31
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.66
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4531 kWh	5393 kWh



Model: PUHZ-SHW80VAA(-BS) + ERSC-*M*C

Configure model		
Model name	PUHZ-SHW80VAA(-BS) + ERSC-*M*C	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
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 kW	8 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.7

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	172 %	135 %
Prated	9.6 kW	9 kW
SCOP	4.38	3.45
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7 °C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = $+2$ °C	5.2 kW	4.9 kW
COP Tj = +2°C	4.08	3.31
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.66
Cdh Tj = +7 °C	0.97	0.98
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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4531 kWh	5393 kWh



Model: PUHZ-SHW112VAA(-BS) + EHST20C-M*C

Configure model		
Model name	PUHZ-SHW112VAA(-BS) + EHST20C-M*C	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

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



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

EN 14825		
	Low temperature	Medium temperature
η_{s}	171 %	135 %
Prated	13.9 kW	12.7 kW
SCOP	4.34	3.46
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7° C	12.3 kW	11.2 kW
COP Tj = -7° C	3.15	2.12
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = $+2$ °C	7.5 kW	6.8 kW
$COP Tj = +2^{\circ}C$	4.08	3.31
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = $+7^{\circ}$ C	5 kW	4.7 kW
$COP Tj = +7^{\circ}C$	5.56	4.79
Cdh Tj = +7 °C	0.97	0.98

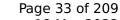


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This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6618 kWh	7588 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 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



Model: PUHZ-SHW112VAA(-BS) + EHST20C-*M*C

Configure model		
Model name	PUHZ-SHW112VAA(-BS) + EHST20C-*M*C	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

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



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

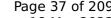
EN 14825				
	Low temperature	Medium temperature		
η_{s}	171 %	135 %		
Prated	13.9 kW	12.7 kW		
SCOP	4.34	3.46		
Tbiv	-7 °C	-7 °C		
TOL	-28 °C	-28 °C		
Pdh Tj = -7°C	12.3 kW	11.2 kW		
COP Tj = -7°C	3.15	2.12		
Cdh Tj = -7 °C	0.97	0.98		
Pdh Tj = $+2^{\circ}$ C	7.5 kW	6.8 kW		
COP Tj = +2°C	4.08	3.31		
Cdh Tj = +2 °C	0.97	0.98		
Pdh Tj = +7°C	5 kW	4.7 kW		
COP Tj = +7°C	5.56	4.79		
Cdh Tj = +7 °C	0.97	0.98		



Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6618 kWh	7588 kWh

Domestic Hot Water (DHW)

CEN heat pump KEYMARK





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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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	

Model: PUHZ-SHW112VAA(-BS) + ERST20C-M*C

Configure model		
Model name PUHZ-SHW112VAA(-BS) + ERST20C-M*C		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional) n/a		

General Data		
Power supply 1x230V 50Hz		

Heating

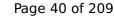
EN 14511-2			
Low temperature Medium temperature			
Heat output	11.2 kW	11.2 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

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



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

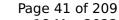
EN 14825		
	Low temperature	Medium temperature
η_{s}	173 %	137 %
Prated	13.9 kW	12.7 kW
SCOP	4.39	3.5
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7° C	3.15	2.12
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.11	3.34
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6539 kWh	7498 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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUHZ-SHW112VAA(-BS) + ERST20C-*M*C

Configure model		
Model name PUHZ-SHW112VAA(-BS) + ERST20C-*M*C		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	11.2 kW	11.2 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

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



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

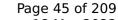
EN 14825		
	Low temperature	Medium temperature
η_{s}	173 %	137 %
Prated	13.9 kW	12.7 kW
SCOP	4.39	3.5
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.11	3.34
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6539 kWh	7498 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 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



Model: PUHZ-SHW112VAA(-BS) + EHSC-M*C

Configure model		
Model name	PUHZ-SHW112VAA(-BS) + EHSC-M*C	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

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



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

EN 14825		
	Low temperature	Medium temperature
η_{s}	171 %	135 %
Prated	13.9 kW	12.7 kW
SCOP	4.34	3.46
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.08	3.31
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6618 kWh	7588 kWh



Model: PUHZ-SHW112VAA(-BS) + EHSC-*M*C

Configure model		
Model name PUHZ-SHW112VAA(-BS) + EHSC-*M*C		
Application Heating (medium temp)		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility No		
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	11.2 kW	11.2 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

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



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

EN 14825		
	Low temperature	Medium temperature
η_{s}	171 %	135 %
Prated	13.9 kW	12.7 kW
SCOP	4.34	3.46
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.08	3.31
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6618 kWh	7588 kWh



Model: PUHZ-SHW112VAA(-BS) + ERSC-M*C

Configure model		
Model name PUHZ-SHW112VAA(-BS) + ERSC-M*C		
Application Heating (medium temp)		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional) n/a		

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	11.2 kW	11.2 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

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



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

EN 14825		
	Low temperature	Medium temperature
η_{s}	173 %	137 %
Prated	13.9 kW	12.7 kW
SCOP	4.39	3.5
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = $+2$ °C	7.5 kW	6.8 kW
COP Tj = +2°C	4.11	3.34
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.97	0.98



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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6539 kWh	7498 kWh



Model: PUHZ-SHW112VAA(-BS) + ERSC-*M*C

Configure model		
Model name PUHZ-SHW112VAA(-BS) + ERSC-*M*C		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

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



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

EN 14825		
	Low temperature	Medium temperature
η_{s}	173 %	137 %
Prated	13.9 kW	12.7 kW
SCOP	4.39	3.5
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.11	3.34
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.97	0.98



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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6539 kWh	7498 kWh



Model: PUHZ-SHW80YAA(-BS) + EHST20C-M*C

Configure model		
Model name	PUHZ-SHW80YAA(-BS) + EHST20C-M*C	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
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 kW	8 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.7

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

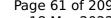
EN 14825		
	Low temperature	Medium temperature
η_{s}	167 %	132 %
Prated	9.6 kW	9 kW
SCOP	4.26	3.36
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = $+2$ °C	5.2 kW	4.9 kW
COP Tj = +2°C	4.02	3.27
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = $+7^{\circ}$ C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.64
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4659 kWh	5527 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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUHZ-SHW80YAA(-BS) + EHST20C-*M*C

Configure model		
Model name	PUHZ-SHW80YAA(-BS) + EHST20C-*M*C	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

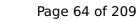
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8 kW	8 kW	
El input	1.72 kW	2.96 kW	
СОР	4.65	2.7	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

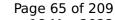
EN 14825		
	Low temperature	Medium temperature
η_{s}	167 %	132 %
Prated	9.6 kW	9 kW
SCOP	4.26	3.36
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.02	3.27
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.64
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4659 kWh	5527 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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUHZ-SHW80YAA(-BS) + ERST20C-M*C

Configure model		
Model name PUHZ-SHW80YAA(-BS) + ERST20C-M*C		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone n/a		
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 kW	8 kW	
El input	1.72 kW	2.96 kW	
СОР	4.65	2.7	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	172 %	134 %
Prated	9.6 kW	9 kW
SCOP	4.37	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.09	3.31
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.64
Cdh Tj = +7 °C	0.96	0.97





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4539 kWh	5413 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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUHZ-SHW80YAA(-BS) + ERST20C-*M*C

Configure model		
Model name PUHZ-SHW80YAA(-BS) + ERST20C-*M*C		
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x400V 50Hz		

Heating

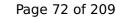
EN 14511-2			
Low temperature Medium temperature			
Heat output	8 kW	8 kW	
El input	1.72 kW	2.96 kW	
СОР	4.65	2.7	

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



EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	40 dB(A)	40 dB(A)		
Sound power level outdoor	59 dB(A)	59 dB(A)		

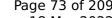
EN 14825				
	Low temperature	Medium temperature		
η_{s}	172 %	134 %		
Prated	9.6 kW	9 kW		
SCOP	4.37	3.44		
Tbiv	-7 °C	-7 °C		
TOL	-28 °C	-28 °C		
Pdh Tj = -7°C	8.5 kW	8 kW		
COP Tj = -7°C	3.15	2.13		
Cdh Tj = -7 °C	0.96	0.97		
Pdh Tj = $+2$ °C	5.2 kW	4.9 kW		
COP Tj = +2°C	4.09	3.31		
Cdh Tj = +2 °C	0.96	0.97		
Pdh Tj = +7°C	5 kW	5.4 kW		
COP Tj = +7°C	5.62	4.64		
Cdh Tj = +7 °C	0.96	0.97		





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4539 kWh	5413 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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUHZ-SHW80YAA(-BS) + EHSC-M*C

Configure model		
Model name	PUHZ-SHW80YAA(-BS) + EHSC-M*C	
Application Heating (medium temp)		
Units	Indoor + Outdoor	
Climate Zone	n/a	
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 kW	8 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.7

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	167 %	132 %
Prated	9.6 kW	9 kW
SCOP	4.26	3.36
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.2 kW	4.9 kW
$COP Tj = +2^{\circ}C$	4.02	3.27
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.64
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4659 kWh	5527 kWh



Model: PUHZ-SHW80YAA(-BS) + EHSC-*M*C

Configure model		
Model name	PUHZ-SHW80YAA(-BS) + EHSC-*M*C	
Application Heating (medium temp)		
Units	Indoor + Outdoor	
Climate Zone	n/a	
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 kW	8 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.7

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	167 %	132 %
Prated	9.6 kW	9 kW
SCOP	4.26	3.36
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.02	3.27
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.64
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4659 kWh	5527 kWh



Model: PUHZ-SHW80YAA(-BS) + ERSC-M*C

Configure model		
Model name	PUHZ-SHW80YAA(-BS) + ERSC-M*C	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
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 kW	8 kW	
El input	1.72 kW	2.96 kW	
СОР	4.65	2.7	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	172 %	134 %
Prated	9.6 kW	9 kW
SCOP	4.37	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.09	3.31
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.64
Cdh Tj = +7 °C	0.96	0.97



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4539 kWh	5413 kWh



Model: PUHZ-SHW80YAA(-BS) + ERSC-*M*C

Configure model		
Model name	PUHZ-SHW80YAA(-BS) + ERSC-*M*C	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
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 kW	8 kW		
El input	1.72 kW	2.96 kW		
СОР	4.65	2.7		

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	172 %	134 %
Prated	9.6 kW	9 kW
SCOP	4.37	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = $+2$ °C	5.2 kW	4.9 kW
COP Tj = +2°C	4.09	3.31
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = $+7^{\circ}$ C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.64
Cdh Tj = +7 °C	0.96	0.97



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4539 kWh	5413 kWh



Model: PUHZ-SHW112YAA(-BS) + EHST20C-M*C

Configure model		
Model name	PUHZ-SHW112YAA(-BS) + EHST20C-M*C	
Application	Heating + DHW + low temp	
Jnits Indoor + Outdoor		
Climate Zone n/a		
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

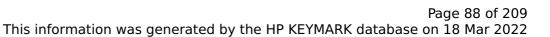
EN 14511-2				
Low temperature Medium temperature				
Heat output	11.2 kW	11.2 kW		
El input	2.51 kW	4.13 kW		
СОР	4.46	2.71		

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



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

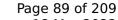
EN 14825		
	Low temperature	Medium temperature
η_{s}	169 %	135 %
Prated	13.9 kW	12.7 kW
SCOP	4.31	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.06	3.31
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.96	0.97





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6667 kWh	7621 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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUHZ-SHW112YAA(-BS) + EHST20C-*M*C

Configure model		
Model name PUHZ-SHW112YAA(-BS) + EHST20C-*M*C		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility No		
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x400V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	11.2 kW	11.2 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

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



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

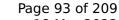
EN 14825		
	Low temperature	Medium temperature
η_{s}	169 %	135 %
Prated	13.9 kW	12.7 kW
SCOP	4.31	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.06	3.31
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.96	0.97





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6667 kWh	7621 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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUHZ-SHW112YAA(-BS) + ERST20C-M*C

Configure model		
Model name PUHZ-SHW112YAA(-BS) + ERST20C-M*C		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x400V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	11.2 kW	11.2 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

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



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

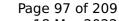
EN 14825		
	Low temperature	Medium temperature
η_{s}	173 %	137 %
Prated	13.9 kW	12.7 kW
SCOP	4.39	3.49
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.12	3.33
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.96	0.97





	· · · · · · · · · · · · · · · · · · ·	
Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6538 kWh	7517 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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUHZ-SHW112YAA(-BS) + ERST20C-*M*C

Configure model		
Model name	PUHZ-SHW112YAA(-BS) + ERST20C-*M*C	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x400V 50Hz		

Heating

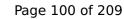
EN 14511-2			
Low temperature Medium temperature			
Heat output	11.2 kW	11.2 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

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



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

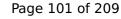
EN 14825		
	Low temperature	Medium temperature
η_{s}	173 %	137 %
Prated	13.9 kW	12.7 kW
SCOP	4.39	3.49
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.12	3.33
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.96	0.97





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6538 kWh	7517 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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUHZ-SHW112YAA(-BS) + EHSC-M*C

Configure model		
Model name	PUHZ-SHW112YAA(-BS) + EHSC-M*C	
Application Heating (medium temp)		
Units Indoor + Outdoor		
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

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



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

EN 14825		
	Low temperature	Medium temperature
η_{S}	169 %	135 %
Prated	13.9 kW	12.7 kW
SCOP	4.31	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = $+2^{\circ}$ C	7.5 kW	6.8 kW
COP Tj = +2°C	4.06	3.31
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.96	0.97



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6667 kWh	7621 kWh



Model: PUHZ-SHW112YAA(-BS) + EHSC-*M*C

Configure model		
Model name	PUHZ-SHW112YAA(-BS) + EHSC-*M*C	
Application Heating (medium temp)		
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

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



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

EN 14825		
	Low temperature	Medium temperature
η_{S}	169 %	135 %
Prated	13.9 kW	12.7 kW
SCOP	4.31	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = $+2^{\circ}$ C	7.5 kW	6.8 kW
COP Tj = +2°C	4.06	3.31
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.96	0.97



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.1 kW	1.8 kW
Annual energy consumption Qhe	6667 kWh	7621 kWh



Model: PUHZ-SHW112YAA(-BS) + ERSC-M*C

Configure model		
Model name	PUHZ-SHW112YAA(-BS) + ERSC-M*C	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

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



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

EN 14825		
	Low temperature	Medium temperature
η_{s}	173 %	137 %
Prated	13.9 kW	12.7 kW
SCOP	4.39	3.49
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7° C	3.15	2.12
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = $+2$ °C	7.5 kW	6.8 kW
COP Tj = +2°C	4.12	3.33
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = $+7^{\circ}$ C	5 kW	4.7 kW
$COP Tj = +7^{\circ}C$	5.56	4.79
Cdh Tj = +7 °C	0.96	0.97



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6538 kWh	7517 kWh



Model: PUHZ-SHW112YAA(-BS) + ERSC-*M*C

Configure model		
Model name	PUHZ-SHW112YAA(-BS) + ERSC-*M*C	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

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



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

EN 14825		
	Low temperature	Medium temperature
η_{s}	173 %	137 %
Prated	13.9 kW	12.7 kW
SCOP	4.39	3.49
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.12	3.33
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.96	0.97



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6538 kWh	7517 kWh



Model: PUHZ-SHW80VAA(-BS) + EHST20C-M*D

Configure model		
Model name	PUHZ-SHW80VAA(-BS) + EHST20C-M*D	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
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 kW	8 kW		
El input	1.72 kW	2.96 kW		
СОР	4.65	2.7		

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



EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	40 dB(A)	40 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
η_{s}	169 %	133 %	
Prated	9.6 kW	9 kW	
SCOP	4.31	3.4	
Tbiv	-7 °C	-7 °C	
TOL	-28 °C	-28 °C	
Pdh Tj = -7 °C	8.5 kW	8 kW	
COP Tj = -7°C	3.15	2.13	
Cdh Tj = -7 °C	0.99	1	
Pdh Tj = $+2$ °C	5.2 kW	4.9 kW	
COP Tj = +2°C	4.05	3.29	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	5 kW	5.4 kW	
COP Tj = +7°C	5.62	4.66	
Cdh Tj = +7 °C	0.98	0.99	
	I		

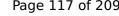




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This information was	generated by the	HP KFYMARK	database on	18 Mar 2022

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4602 kWh	5465 kWh

Domestic Hot Water (DHW)





$$\operatorname{\textit{Page}}\xspace$ 117 of 209 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	L	
Efficiency ηDHW	145 %	
СОР	3.41	
Heating up time	01:58 h:min	
Standby power input	35 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUHZ-SHW80VAA(-BS) + EHST20C-*M*D

Configure model		
Model name PUHZ-SHW80VAA(-BS) + EHST20C-*M*D		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility No		
Cooling mode application (optional) n/a		

General Data		
Power supply	1x230V 50Hz	

Heating

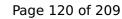
EN 14511-2				
Low temperature Medium temperature				
Heat output	8 kW	8 kW		
El input	1.72 kW	2.96 kW		
СОР	4.65	2.7		

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



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

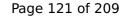
EN 14825		
	Low temperature	Medium temperature
η_{s}	169 %	133 %
Prated	9.6 kW	9 kW
SCOP	4.31	3.4
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.05	3.29
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	5.4 kW
$COP Tj = +7^{\circ}C$	5.62	4.66
Cdh Tj = +7 °C	0.98	0.99





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4602 kWh	5465 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 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



Model: PUHZ-SHW80VAA(-BS) + ERST20C-*M*D

Configure model	
Model name	PUHZ-SHW80VAA(-BS) + ERST20C-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
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 kW	8 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.7

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

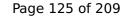
EN 14825		
	Low temperature	Medium temperature
η_{s}	172 %	135 %
Prated	9.6 kW	9 kW
SCOP	4.38	3.45
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.08	3.31
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.66
Cdh Tj = +7 °C	0.98	0.99





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4531 kWh	5393 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 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



Model: PUHZ-SHW80VAA(-BS) + EHSC-M*D

Configure model		
Model name	PUHZ-SHW80VAA(-BS) + EHSC-M*D	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
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 kW	8 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.7

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	169 %	133 %
Prated	9.6 kW	9 kW
SCOP	4.31	3.4
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7 °C	3.15	2.13
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.05	3.29
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.66
Cdh Tj = +7 °C	0.98	0.99
	I	1



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4602 kWh	5465 kWh



Model: PUHZ-SHW80VAA(-BS) + EHSC-*M*D

Configure model	
Model name	PUHZ-SHW80VAA(-BS) + EHSC-*M*D
Application Heating (medium temp)	
Jnits Indoor + Outdoor	
Climate Zone	n/a
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 kW	8 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.7

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	169 %	133 %
Prated	9.6 kW	9 kW
SCOP	4.31	3.4
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.05	3.29
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.66
Cdh Tj = +7 °C	0.98	0.99



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4602 kWh	5465 kWh



Model: PUHZ-SHW80VAA(-BS) + ERSC-M*D

Configure model		
Model name	PUHZ-SHW80VAA(-BS) + ERSC-M*D	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
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 kW	8 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.7

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	172 %	135 %
Prated	9.6 kW	9 kW
SCOP	4.38	3.45
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.99	1
Pdh Tj = $+2$ °C	5.2 kW	4.9 kW
COP Tj = +2°C	4.08	3.31
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.66
Cdh Tj = +7 °C	0.98	0.99



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4531 kWh	5393 kWh



Model: PUHZ-SHW80VAA(-BS) + ERSC-*M*D

Configure model		
Model name	PUHZ-SHW80VAA(-BS) + ERSC-*M*D	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
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 kW	8 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.7

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



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	172 %	135 %
Prated	9.6 kW	9 kW
SCOP	4.38	3.45
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7° C	8.5 kW	8 kW
$COP Tj = -7^{\circ}C$	3.15	2.13
Cdh Tj = -7 °C	0.99	1
Pdh Tj = $+2$ °C	5.2 kW	4.9 kW
COP Tj = +2°C	4.08	3.31
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.66
Cdh Tj = +7 °C	0.98	0.99
	1	



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4531 kWh	5393 kWh



Model: PUHZ-SHW112VAA(-BS) + EHST20C-M*D

Configure model	
Model name	PUHZ-SHW112VAA(-BS) + EHST20C-M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data		
Power supply	1x230V 50Hz	

Heating

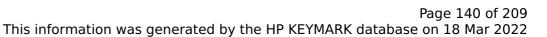
EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

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



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

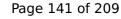
EN 14825		
	Low temperature	Medium temperature
η_{s}	171 %	135 %
Prated	13.9 kW	12.7 kW
SCOP	4.34	3.46
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
$COPTj = -7^{\circ}C$	3.15	2.12
Cdh Tj = -7 °C	1	1
Pdh Tj = $+2$ °C	7.5 kW	6.8 kW
COP Tj = +2°C	4.08	3.31
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.98	0.98





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6618 kWh	7588 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 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278

Model: PUHZ-SHW112VAA(-BS) + EHST20C-*M*D

Configure model	
Model name	PUHZ-SHW112VAA(-BS) + EHST20C-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data		
Power supply	1x230V 50Hz	

Heating

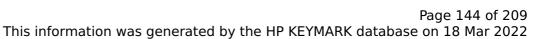
EN 14511-2				
	Low temperature	Medium temperature		
Heat output	11.2 kW	11.2 kW		
El input	2.51 kW	4.13 kW		
СОР	4.46	2.71		

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



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

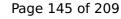
EN 14825			
	Low temperature	Medium temperature	
η_{s}	171 %	135 %	
Prated	13.9 kW	12.7 kW	
SCOP	4.34	3.46	
Tbiv	-7 °C	-7 °C	
TOL	-28 °C	-28 °C	
Pdh Tj = -7°C	12.3 kW	11.2 kW	
COP Tj = -7°C	3.15	2.12	
Cdh Tj = -7 °C	1	1	
Pdh Tj = +2°C	7.5 kW	6.8 kW	
COP Tj = +2°C	4.08	3.31	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	5 kW	4.7 kW	
COP Tj = +7°C	5.56	4.79	
Cdh Tj = +7 °C	0.98	0.98	





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6618 kWh	7588 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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	

Model: PUHZ-SHW112VAA(-BS) + ERST20C-*M*D

Configure model		
Model name PUHZ-SHW112VAA(-BS) + ERST20C-*M*D		
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	11.2 kW	11.2 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

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



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

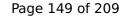
EN 14825		
	Low temperature	Medium temperature
η_{s}	173 %	137 %
Prated	13.9 kW	12.7 kW
SCOP	4.39	3.5
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.11	3.34
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.98	0.98





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6539 kWh	7498 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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	

Model: PUHZ-SHW112VAA(-BS) + EHSC-M*D

Configure model		
Model name PUHZ-SHW112VAA(-BS) + EHSC-M*D		
Application Heating (medium temp)		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility No		
Cooling mode application (optional) n/a		

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	11.2 kW	11.2 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

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



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

EN 14825		
	Low temperature	Medium temperature
η_{s}	171 %	135 %
Prated	13.9 kW	12.7 kW
SCOP	4.34	3.46
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	1	1
Pdh Tj = $+2$ °C	7.5 kW	6.8 kW
COP Tj = +2°C	4.08	3.31
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.98	0.98



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6618 kWh	7588 kWh



Model: PUHZ-SHW112VAA(-BS) + EHSC-*M*D

Configure model	
Model name	PUHZ-SHW112VAA(-BS) + EHSC-*M*D
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

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



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

EN 14825		
	Low temperature	Medium temperature
η_{s}	171 %	135 %
Prated	13.9 kW	12.7 kW
SCOP	4.34	3.46
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.08	3.31
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.98	0.98



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6618 kWh	7588 kWh

Model: PUHZ-SHW112VAA(-BS) + ERSC-M*D

Configure model	
Model name	PUHZ-SHW112VAA(-BS) + ERSC-M*D
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	11.2 kW	11.2 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

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



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

EN 14825		
	Low temperature	Medium temperature
η_{s}	173 %	137 %
Prated	13.9 kW	12.7 kW
SCOP	4.39	3.5
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7 °C	3.15	2.12
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.11	3.34
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.98	0.98
can ij = +/°C	0.98	U.98



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6539 kWh	7498 kWh



Model: PUHZ-SHW112VAA(-BS) + ERSC-*M*D

Configure model		
Model name PUHZ-SHW112VAA(-BS) + ERSC-*M*D		
Application Heating (medium temp)		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional) n/a		

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	11.2 kW	11.2 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

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



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

EN 14825		
	Low temperature	Medium temperature
η_{s}	173 %	137 %
Prated	13.9 kW	12.7 kW
SCOP	4.39	3.5
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.11	3.34
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.98	0.98



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.45 .98 2.3 kW	5.3 kW 6.12 0.98 11.2 kW
.98 2.3 kW	0.98 11.2 kW
2.3 kW	11.2 kW
.15	2.12
	2.12
1.8 kW	10.9 kW
.9	2.03
0 °C	60 °C
5 W	15 W
5 W	15 W
5 W	15 W
W	0 W
lectricity	Electricity
.1 kW	1.8 kW
	7498 kWh
0 5 5 V	°C W W V ctricity kW

Model: PUHZ-SHW80YAA(-BS) + EHST20C-M*D

Configure model		
Model name PUHZ-SHW80YAA(-BS) + EHST20C-M*D		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility No		
Cooling mode application (optional) n/a		

General Data			
Power supply 3x400V 50Hz			

Heating

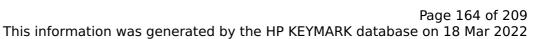
EN 14511-2			
Low temperature Medium temperature			
Heat output	8 kW	8 kW	
El input	1.72 kW	2.96 kW	
СОР	4.65	2.7	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

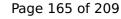
EN 14825		
	Low temperature	Medium temperature
η_{S}	167 %	132 %
Prated	9.6 kW	9 kW
SCOP	4.26	3.36
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2^{\circ}$ C	5.2 kW	4.9 kW
COP Tj = +2°C	4.02	3.27
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.64
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4659 kWh	5527 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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	

Model: PUHZ-SHW80YAA(-BS) + EHST20C-*M*D

Configure model		
Model name PUHZ-SHW80YAA(-BS) + EHST20C-*M*D		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility No		
Cooling mode application (optional)	n/a	

General Data			
Power supply 3x400V 50Hz			

Heating

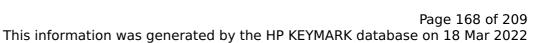
EN 14511-2			
Low temperature Medium temperature			
Heat output	8 kW	8 kW	
El input	1.72 kW	2.96 kW	
СОР	4.65	2.7	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

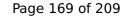
EN 14825		
	Low temperature	Medium temperature
η_{S}	167 %	132 %
Prated	9.6 kW	9 kW
SCOP	4.26	3.36
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2^{\circ}$ C	5.2 kW	4.9 kW
COP Tj = +2°C	4.02	3.27
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.64
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4659 kWh	5527 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 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUHZ-SHW80YAA(-BS) + ERST20C-*M*D

Configure model		
Model name	PUHZ-SHW80YAA(-BS) + ERST20C-*M*D	
Application Heating + DHW + low temp		
nits Indoor + Outdoor		
Climate Zone n/a		
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 kW	8 kW	
El input	1.72 kW	2.96 kW	
СОР	4.65	2.7	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

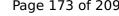
EN 14825		
	Low temperature	Medium temperature
η_{s}	172 %	134 %
Prated	9.6 kW	9 kW
SCOP	4.37	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
$COP Tj = -7^{\circ}C$	3.15	2.13
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2$ °C	5.2 kW	4.9 kW
COP Tj = +2°C	4.09	3.31
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = $+7^{\circ}$ C	5 kW	5.4 kW
$COPTj = +7^{\circ}C$	5.62	4.64
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4539 kWh	5413 kWh

Domestic Hot Water (DHW)





$$\operatorname{\textit{Page}}\xspace$ 173 of 209 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	L	
Efficiency ηDHW	145 %	
СОР	3.41	
Heating up time	01:58 h:min	
Standby power input	35 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUHZ-SHW80YAA(-BS) + EHSC-M*D

Configure model		
Model name	PUHZ-SHW80YAA(-BS) + EHSC-M*D	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
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 kW	8 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.7

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	e Medium temperature
η_{s}	167 %	132 %
Prated	9.6 kW	9 kW
SCOP	4.26	3.36
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2$ °C	5.2 kW	4.9 kW
COP Tj = +2°C	4.02	3.27
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = $+7^{\circ}$ C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.64
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4659 kWh	5527 kWh



Model: PUHZ-SHW80YAA(-BS) + EHSC-*M*D

Configure model		
Model name	PUHZ-SHW80YAA(-BS) + EHSC-*M*D	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
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 kW	8 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.7

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	167 %	132 %
Prated	9.6 kW	9 kW
SCOP	4.26	3.36
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.02	3.27
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.64
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4659 kWh	5527 kWh



Model: PUHZ-SHW80YAA(-BS) + ERSC-M*D

Configure model		
Model name	PUHZ-SHW80YAA(-BS) + ERSC-M*D	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
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 kW	8 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.7

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	172 %	134 %
Prated	9.6 kW	9 kW
SCOP	4.37	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
$COP Tj = -7^{\circ}C$	3.15	2.13
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2$ °C	5.2 kW	4.9 kW
COP Tj = +2°C	4.09	3.31
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = $+7^{\circ}$ C	5 kW	5.4 kW
$COPTj = +7^{\circ}C$	5.62	4.64
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4539 kWh	5413 kWh



Model: PUHZ-SHW80YAA(-BS) + ERSC-*M*D

Configure model		
Model name	PUHZ-SHW80YAA(-BS) + ERSC-*M*D	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
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 kW	8 kW
El input	1.72 kW	2.96 kW
СОР	4.65	2.7

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	172 %	134 %
Prated	9.6 kW	9 kW
SCOP	4.37	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.09	3.31
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.64
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4539 kWh	5413 kWh



Model: PUHZ-SHW112YAA(-BS) + EHST20C-M*D

Configure model		
Model name	PUHZ-SHW112YAA(-BS) + EHST20C-M*D	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

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



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

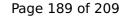
EN 14825		
	Low temperature	Medium temperature
η_{s}	169 %	135 %
Prated	13.9 kW	12.7 kW
SCOP	4.31	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.06	3.31
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6667 kWh	7621 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 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278

Model: PUHZ-SHW112YAA(-BS) + EHST20C-*M*D

Configure model		
Model name	PUHZ-SHW112YAA(-BS) + EHST20C-*M*D	
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility No		
Cooling mode application (optional) n/a		

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

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



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

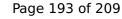
EN 14825		
	Low temperature	Medium temperature
η_{s}	169 %	135 %
Prated	13.9 kW	12.7 kW
SCOP	4.31	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.06	3.31
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6667 kWh	7621 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 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



Model: PUHZ-SHW112YAA(-BS) + ERST20C-*M*D

Configure model		
Model name PUHZ-SHW112YAA(-BS) + ERST20C-*M*D		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

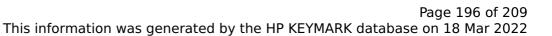
EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

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



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

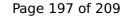
EN 14825		
	Low temperature	Medium temperature
η_{s}	173 %	137 %
Prated	13.9 kW	12.7 kW
SCOP	4.39	3.49
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.12	3.33
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.97	0.98





	1	1
Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6538 kWh	7517 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 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



Model: PUHZ-SHW112YAA(-BS) + EHSC-M*D

Configure model		
Model name	PUHZ-SHW112YAA(-BS) + EHSC-M*D	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	11.2 kW	11.2 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

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



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

EN 14825		
	Low temperature	Medium temperature
η_{s}	169 %	135 %
Prated	13.9 kW	12.7 kW
SCOP	4.31	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.06	3.31
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6667 kWh	7621 kWh



Model: PUHZ-SHW112YAA(-BS) + EHSC-*M*D

Configure model		
Model name	PUHZ-SHW112YAA(-BS) + EHSC-*M*D	
Application	Heating (medium temp)	
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility No		
Cooling mode application (optional) n/a		

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.2 kW	11.2 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

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



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

EN 14825		
	Low temperature	Medium temperature
η_{s}	169 %	135 %
Prated	13.9 kW	12.7 kW
SCOP	4.31	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.06	3.31
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6667 kWh	7621 kWh



Model: PUHZ-SHW112YAA(-BS) + ERSC-M*D

Configure model			
Model name PUHZ-SHW112YAA(-BS) + ERSC-M*D			
Application Heating (medium temp)			
Units Indoor + Outdoor			
Climate Zone n/a			
Reversibility Yes			
Cooling mode application (optional) n/a			

General Data		
Power supply 3x400V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	11.2 kW	11.2 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

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



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

EN 14825		
	Low temperature	Medium temperature
η_{s}	173 %	137 %
Prated	13.9 kW	12.7 kW
SCOP	4.39	3.49
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.12	3.33
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	4.7 kW
COP Tj = +7°C	5.56	4.79
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6538 kWh	7517 kWh



Model: PUHZ-SHW112YAA(-BS) + ERSC-*M*D

Configure model		
Model name PUHZ-SHW112YAA(-BS) + ERSC-*M*D		
Application Heating (medium temp)		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x400V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	11.2 kW	11.2 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

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



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

EN 14825			
	Low temperature	Medium temperature	
η_{s}	173 %	137 %	
Prated	13.9 kW	12.7 kW	
SCOP	4.39	3.49	
Tbiv	-7 °C	-7 °C	
TOL	-28 °C	-28 °C	
Pdh Tj = -7°C	12.3 kW	11.2 kW	
COP Tj = -7°C	3.15	2.12	
Cdh Tj = -7 °C	0.99	1	
Pdh Tj = +2°C	7.5 kW	6.8 kW	
COP Tj = +2°C	4.12	3.33	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	5 kW	4.7 kW	
COP Tj = +7°C	5.56	4.79	
Cdh Tj = +7 °C	0.97	0.98	



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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6538 kWh	7517 kWh