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#### This information was generated by the HP KEYMARK database on 22 Jun 2022

#### <u>Login</u>

Summary of	Ecodan Power Inverter 10 AA	Reg. No.	037-0050-20	
Certificate Holder				
Name	Mitsubishi Electric Air Conditioning Systems Europe LTD			
Address	Nettlehill Road, Houston Industrial Estate Zip EH54 5EQ			
City	Livingston	Country	United Kingdom	
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)			
Subtype title	Ecodan Power Inverter 10 AA			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	4.2 kg			
Certification Date	09.04.2020			
Testing basis	HP Keymark scheme rules rev. no. 7			



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

Configure model		
Model name	PUHZ-SW100VAA(-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
$\eta_{s}$	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5156 kWh	6204 kWh



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

Configure model		
Model name	PUHZ-SW100VAA(-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
$\eta_{s}$	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5156 kWh	6204 kWh



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

Configure model	
Model name	PUHZ-SW100VAA(-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

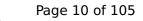
EN 14511-2		
Low temperature Medium temperature		
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

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
$\eta_{s}$	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = $+2$ °C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98





This information was gene	rated by the HP KEYMA	RK database on 22 Jun 202
Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
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
		1

1.64 kW

5156 kWh

1.42 kW

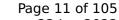
6204 kWh

### Domestic Hot Water (DHW)

## Average Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe





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-SW100VAA(-BS) + EHST20C-\*M\*C

Configure model		
Model name PUHZ-SW100VAA(-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)

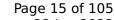
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5156 kWh	6204 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-SW100VAA(-BS) + ERSC-M\*C

Configure model		
Model name PUHZ-SW100VAA(-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
$\eta_{s}$	170 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = $+7^{\circ}$ C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98



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	-	
Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5070 kWh	6130 kWh



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

Configure model		
Model name	PUHZ-SW100VAA(-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
$\eta_{s}$	170 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = $+7^{\circ}$ C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5070 kWh	6130 kWh



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

Configure model		
Model name PUHZ-SW100VAA(-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)

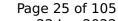
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	170 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5070 kWh	6130 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-SW100VAA(-BS) + ERST20C-\*M\*C

Configure model		
Model name	PUHZ-SW100VAA(-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

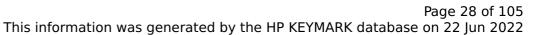
EN 14511-2			
Low temperature Medium temperature			
Heat output	11.2 kW	11.2 kW	
El input	2.51 kW	4.13 kW	
СОР	4.46	2.71	

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)

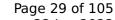
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	170 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = $+7^{\circ}$ C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98





	-	
Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5070 kWh	6130 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-SW100YAA(-BS) + EHSC-M\*C

Configure model		
Model name	PUHZ-SW100YAA(-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
$\eta_{s}$	165 %	129 %
Prated	10.6 kW	10 kW
SCOP	4.21	3.3
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = $+2$ °C	5.7 kW	5.4 kW
COP Tj = +2°C	4.14	3.18
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = $+7^{\circ}$ C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.96	0.97



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Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5204 kWh	6262 kWh



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

Configure model		
Model name	PUHZ-SW100YAA(-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
$\eta_{s}$	165 %	129 %
Prated	10.6 kW	10 kW
SCOP	4.21	3.3
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.14	3.18
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	4.5 kW	4.7 kW
$COP Tj = +7^{\circ}C$	5.55	4.79
Cdh Tj = +7 °C	0.96	0.97



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Ddb Ti = 12°C	4 2 kW	E 2 1/M
Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5204 kWh	6262 kWh



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

Configure model		
Model name	PUHZ-SW100YAA(-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
$\eta_{s}$	165 %	129 %
Prated	10.6 kW	10 kW
SCOP	4.21	3.3
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = $+2$ °C	5.7 kW	5.4 kW
COP Tj = +2°C	4.14	3.18
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = $+7^{\circ}$ C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.96	0.97

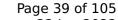


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This information was generated by the HP KEYMARK database on 22 Jun 2022

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Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5204 kWh	6262 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-SW100YAA(-BS) + EHST20C-\*M\*C

Configure model		
Model name PUHZ-SW100YAA(-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	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)

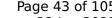
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	129 %
Prated	10.6 kW	10 kW
SCOP	4.21	3.3
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.14	3.18
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	4.5 kW	4.7 kW
$COP Tj = +7^{\circ}C$	5.55	4.79
Cdh Tj = +7 °C	0.96	0.97





Ddb Ti = 12°C	4 2 kW	E 2 1/M
Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5204 kWh	6262 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-SW100YAA(-BS) + ERSC-M\*C

Configure model			
Model name PUHZ-SW100YAA(-BS) + ERSC-M*C			
Application	Heating (medium temp)		
Inits Indoor + Outdoor			
Climate Zone	nate Zone n/a		
Reversibility			
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
$\eta_{s}$	169 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = $+2$ °C	5.7 kW	5.4 kW
COP Tj = +2°C	4.2	3.22
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.96	0.97



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Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5086 kWh	6141 kWh



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

Configure model		
Model name PUHZ-SW100YAA(-BS) + ERSC-*M*C		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
imate 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
$\eta_{s}$	169 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = $+2$ °C	5.7 kW	5.4 kW
COP Tj = +2°C	4.2	3.22
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.96	0.97



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Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5086 kWh	6141 kWh



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

Configure model		
Model name	PUHZ-SW100YAA(-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

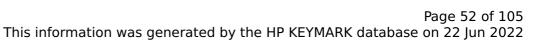
EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

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)

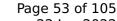
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	169 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.2	3.22
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.96	0.97





4.3 kW	5.3 kW
7.47	6.12
0.96	0.97
9.4 kW	8.9 kW
2.75	1.95
8.96 kW	8.58 kW
2.44	1.84
60 °C	60 °C
22 W	22 W
22 W	22 W
22 W	22 W
0 W	0 W
Electricity	Electricity
1.64 kW	1.42 kW
5086 kWh	6141 kWh
	7.47  0.96  9.4 kW  2.75  8.96 kW  2.44  60 °C  22 W  22 W  22 W  0 W  Electricity  1.64 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	46 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



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

Configure model		
Model name	PUHZ-SW100YAA(-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

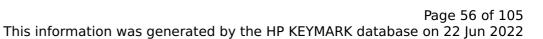
EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
СОР	4.46	2.71

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)

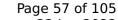
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	169 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = $+2$ °C	5.7 kW	5.4 kW
COP Tj = +2°C	4.2	3.22
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.96	0.97





Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5086 kWh	6141 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-SW100VAA(-BS) + EHST20C-M\*D

Configure model		
Model name PUHZ-SW100VAA(-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	2.52 kW	4.31 kW
СОР	4.45	2.6

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)

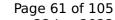
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.98





Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5156 kWh	6204 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-SW100YAA(-BS) + EHST20C-M\*D

Configure model	
Model name	PUHZ-SW100YAA(-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	2.52 kW	4.31 kW
СОР	4.45	2.6

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	129 %
Prated	10.6 kW	10 kW
SCOP	4.21	3.3
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.99	1
Pdh Tj = $+2$ °C	5.7 kW	5.4 kW
COP Tj = +2°C	4.14	3.18
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98





This information was generated by the HP KEYMARK database on 22 Jun 20		
Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW

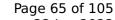
Domestic Hot Water (DHW)

Annual energy consumption Qhe

Average Climate

5204 kWh

6262 kWh





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-SW100YAA(-BS) + EHST20C-\*M\*D

Configure model		
Model name	PUHZ-SW100YAA(-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

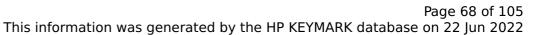
EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.52 kW	4.31 kW
СОР	4.45	2.6

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



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

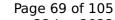
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	129 %
Prated	10.6 kW	10 kW
SCOP	4.21	3.3
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.99	1
Pdh Tj = $+2$ °C	5.7 kW	5.4 kW
COP Tj = +2°C	4.14	3.18
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5204 kWh	6262 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-SW100YAA(-BS) + EHSC-M\*D

Configure model		
Model name	PUHZ-SW100YAA(-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	2.52 kW	4.31 kW
СОР	4.45	2.6

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	129 %
Prated	10.6 kW	10 kW
SCOP	4.21	3.3
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.99	1
Pdh Tj = $+2$ °C	5.7 kW	5.4 kW
COP Tj = +2°C	4.14	3.18
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5204 kWh	6262 kWh



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

Configure model			
Model name   PUHZ-SW100YAA(-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	2.52 kW	4.31 kW	
СОР	4.45	2.6	

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	129 %
Prated	10.6 kW	10 kW
SCOP	4.21	3.3
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.99	1
Pdh Tj = $+2^{\circ}$ C	5.7 kW	5.4 kW
COP Tj = +2°C	4.14	3.18
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98



# $$\operatorname{\textit{Page}}\xspace$ 75 of 105 This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5204 kWh	6262 kWh



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

Configure model			
Model name PUHZ-SW100YAA(-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	2.52 kW	4.31 kW	
СОР	4.45	2.6	

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



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

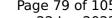
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	169 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.2	3.22
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98





Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5086 kWh	6141 kWh

Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\ 79$$ of 105 This information was generated by the HP KEYMARK database on 22 Jun 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-SW100YAA(-BS) + ERSC-M\*D

Configure model		
Model name	PUHZ-SW100YAA(-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	2.52 kW	4.31 kW
СОР	4.45	2.6

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	169 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.99	1
Pdh Tj = $+2$ °C	5.7 kW	5.4 kW
COP Tj = +2°C	4.2	3.22
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5086 kWh	6141 kWh



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

Configure model		
Model name	PUHZ-SW100YAA(-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	2.52 kW	4.31 kW	
СОР	4.45	2.6	

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	169 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.99	1
Pdh Tj = $+2$ °C	5.7 kW	5.4 kW
COP Tj = +2°C	4.2	3.22
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98



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Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5086 kWh	6141 kWh



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

Configure model		
Model name	PUHZ-SW100VAA(-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	2.52 kW	4.31 kW		
СОР	4.45	2.6		

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)

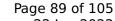
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.98





Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5156 kWh	6204 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-SW100VAA(-BS) + EHSC-M\*D

Configure model		
Model name	PUHZ-SW100VAA(-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	2.52 kW	4.31 kW
СОР	4.45	2.6

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = $-7^{\circ}$ C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = $+2^{\circ}$ C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.98



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	T T T T T T T T T T T T T T T T T T T	
Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5156 kWh	6204 kWh



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

Configure model		
Model name	PUHZ-SW100VAA(-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	2.52 kW	4.31 kW
СОР	4.45	2.6

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

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

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = $-7^{\circ}$ C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = $+2^{\circ}$ C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.98



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Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5156 kWh	6204 kWh



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

Configure model	
Model name PUHZ-SW100VAA(-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	2.52 kW	4.31 kW
СОР	4.45	2.6

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)

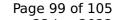
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	170 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = $-7$ °C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = $+2^{\circ}$ C	5.7 kW	5.4 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.98





Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5070 kWh	6130 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-SW100VAA(-BS) + ERSC-M\*D

Configure model		
Model name	PUHZ-SW100VAA(-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	2.52 kW	4.31 kW	
СОР	4.45	2.6	

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	170 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = $-7$ °C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = $+2^{\circ}$ C	5.7 kW	5.4 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.98



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Pdh Tj = 12°C	4.3 kW	5.3 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5070 kWh	6130 kWh



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

Configure model		
Model name PUHZ-SW100VAA(-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	2.52 kW	4.31 kW	
СОР	4.45	2.6	

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



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	170 %	132 %
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TOL	-20 °C	-20 °C
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Cdh Tj = -7 °C	1	1
Pdh Tj = $+2^{\circ}$ C	5.7 kW	5.4 kW
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Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.98



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Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
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Poff	15 W	15 W
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PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
Annual energy consumption Qhe	5070 kWh	6130 kWh