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

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

Summary of	Ecodan Power Inverter 12	Reg. No.	037-0051-20
Certificate Holder	Certificate Holder		
Name	Mitsubishi Electric Air Conditioning Systems Europe	LTD	
Address	Nettlehill Road, Houston Industrial Estate	Zip	EH54 5EQ
City	Livingston Country Un		United Kingdom
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)		
Subtype title	Ecodan Power Inverter 12		
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-SW120VHA(-BS) + EHSC-M\*C

Configure model		
Model name   PUHZ-SW120VHA(-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	16 kW	15.21 kW	
El input	3.9 kW	6.26 kW	
СОР	4.1	2.43	

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	72 dB(A)	72 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	162 %	125 %
Prated	12.9 kW	12.1 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
$COP Tj = -7^{\circ}C$	2.37	1.83
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2^{\circ}$ C	6.9 kW	6.5 kW
$COP Tj = +2^{\circ}C$	4.17	3.11
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	6.5 kW	6 kW
COP Tj = +7°C	5.55	4.47
Cdh Tj = +7 °C	0.99	0.99



Pdh Tj = 12°C 7.7 kW 7.4 kW 6.5  $COPTj = 12^{\circ}C$ 7.32 0.99 Cdh Tj = +12 °C 0.99 Pdh Tj = Tbiv11.4 kW 10.7 kW COP Tj = Tbiv 2.37 1.83 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 10 kW 10.5 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 1.74 2.14 WTOL 60 °C 60 °C Poff 15 W 15 W PTO 15 W 15 W **PSB** 15 W 15 W **PCK** 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 2.4 kW 2.1 kW Annual energy consumption Qhe 7790 kWh 6448 kWh



## Model: PUHZ-SW120VHA(-BS) + EHSC-\*M\*C

Configure model		
Model name PUHZ-SW120VHA(-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	16 kW	15.21 kW	
El input	3.9 kW	6.26 kW	
СОР	4.1	2.43	

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	72 dB(A)	72 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	162 %	125 %
Prated	12.9 kW	12.1 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.9 kW	6.5 kW
COP Tj = +2°C	4.17	3.11
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.55	4.47
Cdh Tj = +7 °C	0.99	0.99



Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.5
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6448 kWh	7790 kWh



## Model: PUHZ-SW120VHA(-BS) + EHST20C-M\*C

Configure model		
Model name PUHZ-SW120VHA(-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	16 kW	15.21 kW
El input	3.9 kW	6.26 kW
СОР	4.1	2.43

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	72 dB(A)	72 dB(A)

EN 14825		
Low temperature	Medium temperature	
162 %	125 %	
12.9 kW	12.1 kW	
4.13	3.21	
-7 °C	-7 °C	
-20 °C	-20 °C	
11.4 kW	10.7 kW	
2.37	1.83	
0.99	0.99	
6.9 kW	6.5 kW	
4.17	3.11	
0.99	0.99	
6.5 kW	6 kW	
5.55	4.47	
0.99	0.99	
	Low temperature  162 %  12.9 kW  4.13  -7 °C  -20 °C  11.4 kW  2.37  0.99  6.9 kW  4.17  0.99  6.5 kW  5.55	

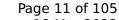


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Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.5
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6448 kWh	7790 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	99 %
СОР	2.33
Heating up time	01:14 h:min
Standby power input	58 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 I



## Model: PUHZ-SW120VHA(-BS) + EHST20C-\*M\*C

Configure model		
Model name	PUHZ-SW120VHA(-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	16 kW	15.21 kW
El input	3.9 kW	6.26 kW
СОР	4.1	2.43

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



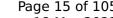
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	72 dB(A)	72 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	162 %	125 %
Prated	12.9 kW	12.1 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.9 kW	6.5 kW
COP Tj = +2°C	4.17	3.11
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.55	4.47
Cdh Tj = +7 °C	0.99	0.99



Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.5
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6448 kWh	7790 kWh

Domestic Hot Water (DHW)





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EN 16147	
Declared load profile	L
Efficiency ηDHW	99 %
СОР	2.33
Heating up time	01:14 h:min
Standby power input	58 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 I



## Model: PUHZ-SW120VHA(-BS) + ERSC-M\*C

Configure model			
Model name	Model name PUHZ-SW120VHA(-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	16 kW	15.21 kW
El input	3.9 kW	6.26 kW
СОР	4.1	2.43

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	72 dB(A)	72 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	164 %	127 %
Prated	12.9 kW	12.1 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.9 kW	6.5 kW
COP Tj = +2°C	4.19	3.13
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.55	4.47
Cdh Tj = +7 °C	0.99	0.99



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Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.5
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6377 kWh	7710 kWh



## Model: PUHZ-SW120VHA(-BS) + ERSC-\*M\*C

Configure model		
Model name	PUHZ-SW120VHA(-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	16 kW	15.21 kW
El input	3.9 kW	6.26 kW
СОР	4.1	2.43

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	72 dB(A)	72 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	164 %	127 %
Prated	12.9 kW	12.1 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.9 kW	6.5 kW
COP Tj = +2°C	4.19	3.13
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.55	4.47
Cdh Tj = +7 °C	0.99	0.99



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	-	
Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.5
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.4 kW	2.1 kW
Annual energy consumption Qhe	6377 kWh	7710 kWh



## Model: PUHZ-SW120VHA(-BS) + ERST20C-M\*C

Configure model		
Model name	PUHZ-SW120VHA(-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	16 kW	15.21 kW
El input	3.9 kW	6.26 kW
СОР	4.1	2.43

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	72 dB(A)	72 dB(A)

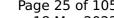
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	164 %	127 %
Prated	12.9 kW	12.1 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.9 kW	6.5 kW
COP Tj = +2°C	4.19	3.13
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.55	4.47
Cdh Tj = +7 °C	0.99	0.99





Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.5
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6377 kWh	7710 kWh

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	99 %	
СОР	2.33	
Heating up time	01:14 h:min	
Standby power input	58 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	292 I	



## Model: PUHZ-SW120VHA(-BS) + ERST20C-\*M\*C

Configure model		
Model name PUHZ-SW120VHA(-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	16 kW	15.21 kW
El input	3.9 kW	6.26 kW
СОР	4.1	2.43

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



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	72 dB(A)	72 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	164 %	127 %
Prated	12.9 kW	12.1 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.9 kW	6.5 kW
COP Tj = +2°C	4.19	3.13
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.55	4.47
Cdh Tj = +7 °C	0.99	0.99

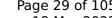


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### This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.5
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6377 kWh	7710 kWh

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	99 %	
СОР	2.33	
Heating up time	01:14 h:min	
Standby power input	58 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	292 I	



## Model: PUHZ-SW120YHA(-BS) + EHSC-M\*C

Configure model			
Model name   PUHZ-SW120YHA(-BS) + EHSC-M*C			
Application	Heating (medium temp)		
Units	Indoor + Outdoor		
Climate Zone	n/a		
Reversibility	versibility No		
Cooling mode application (optional) n/a			

General Data		
Power supply 3x400V 50Hz		

## Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	16 kW	15.21 kW	
El input	3.9 kW	6.26 kW	
СОР	4.1	2.43	

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	72 dB(A)	72 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	162 %	125 %
Prated	12.9 kW	12.1 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.9 kW	6.5 kW
COP Tj = +2°C	4.18	3.13
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.63	4.5
Cdh Tj = +7 °C	0.99	0.99



## $$\operatorname{\textit{Page}}\ 32$$ of 105 This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.55
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6458 kWh	7788 kWh



## Model: PUHZ-SW120YHA(-BS) + EHSC-\*M\*C

Configure model		
Model name   PUHZ-SW120YHA(-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	16 kW	15.21 kW	
El input	3.9 kW	6.26 kW	
СОР	4.1	2.43	

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	72 dB(A)	72 dB(A)

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	162 %	125 %	
Prated	12.9 kW	12.1 kW	
SCOP	4.13	3.21	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	11.4 kW	10.7 kW	
COP Tj = -7°C	2.37	1.83	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = +2°C	6.9 kW	6.5 kW	
$COP Tj = +2^{\circ}C$	4.18	3.13	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	6.5 kW	6 kW	
COP Tj = +7°C	5.63	4.5	
Cdh Tj = +7 °C	0.99	0.99	



# $$\operatorname{Page}\ 35$$ of 105 This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.55
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6458 kWh	7788 kWh



## Model: PUHZ-SW120YHA(-BS) + EHST20C-M\*C

Configure model		
Model name	PUHZ-SW120YHA(-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	16 kW	15.21 kW		
El input	3.9 kW	6.26 kW		
СОР	4.1	2.43		

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	72 dB(A)	72 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	162 %	125 %
Prated	12.9 kW	12.1 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2^{\circ}$ C	6.9 kW	6.5 kW
COP Tj = +2°C	4.18	3.13
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.63	4.5
Cdh Tj = +7 °C	0.99	0.99

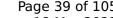


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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.55
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6458 kWh	7788 kWh

Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\ 39$ of 105$$ This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	L	
Efficiency ηDHW	99 %	
СОР	2.33	
Heating up time	01:14 h:min	
Standby power input	58 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	292 I	



# Model: PUHZ-SW120YHA(-BS) + EHST20C-\*M\*C

Configure model		
Model name PUHZ-SW120YHA(-BS) + EHST20C-*M*C		
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
limate Zone n/a		
Reversibility No		
Cooling mode application (optional) n/a		

General Data		
Power supply	Power supply 3x400V 50Hz	

### Heating

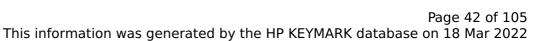
EN 14511-2		
Low temperature Medium temperature		
Heat output	16 kW	15.21 kW
El input	3.9 kW	6.26 kW
СОР	4.1	2.43

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	72 dB(A)	72 dB(A)

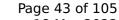
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	162 %	125 %
Prated	12.9 kW	12.1 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2^{\circ}$ C	6.9 kW	6.5 kW
COP Tj = +2°C	4.18	3.13
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.63	4.5
Cdh Tj = +7 °C	0.99	0.99



Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.55
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6458 kWh	7788 kWh

### Domestic Hot Water (DHW)

CEN heat pump KEYMARK





EN 16147		
Declared load profile	L	
Efficiency ηDHW	99 %	
СОР	2.33	
Heating up time	01:14 h:min	
Standby power input	58 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	292 I	



# Model: PUHZ-SW120YHA(-BS) + ERSC-M\*C

Configure model		
Model name PUHZ-SW120YHA(-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	16 kW	15.21 kW	
El input	3.9 kW	6.26 kW	
СОР	4.1	2.43	

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	72 dB(A)	72 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	164 %	127 %
Prated	12.9 kW	12.1 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.9 kW	6.5 kW
COP Tj = +2°C	4.18	3.13
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.63	4.5
Cdh Tj = +7 °C	0.99	0.99



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

Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.55
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6377 kWh	7708 kWh



# Model: PUHZ-SW120YHA(-BS) + ERSC-\*M\*C

Configure model		
Model name PUHZ-SW120YHA(-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	16 kW	15.21 kW	
El input	3.9 kW	6.26 kW	
СОР	4.1	2.43	

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	72 dB(A)	72 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	164 %	127 %
Prated	12.9 kW	12.1 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.9 kW	6.5 kW
$COP Tj = +2^{\circ}C$	4.18	3.13
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.63	4.5
Cdh Tj = +7 °C	0.99	0.99



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

Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.55
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6377 kWh	7708 kWh



# Model: PUHZ-SW120YHA(-BS) + ERST20C-M\*C

Configure model		
Model name	PUHZ-SW120YHA(-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	16 kW	15.21 kW
El input	3.9 kW	6.26 kW
СОР	4.1	2.43

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	72 dB(A)	72 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	164 %	127 %
Prated	12.9 kW	12.1 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.9 kW	6.5 kW
COP Tj = +2°C	4.18	3.13
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.63	4.5
Cdh Tj = +7 °C	0.99	0.99

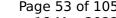


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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.55
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6377 kWh	7708 kWh

Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\xspace$  53 of 105 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
Declared load profile	L
Efficiency ηDHW	99 %
СОР	2.33
Heating up time	01:14 h:min
Standby power input	58 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 I



# Model: PUHZ-SW120YHA(-BS) + ERST20C-\*M\*C

Configure model		
Model name	PUHZ-SW120YHA(-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	16 kW	15.21 kW
El input	3.9 kW	6.26 kW
СОР	4.1	2.43

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	72 dB(A)	72 dB(A)

Low temperature			
Low temperature Medium temperat			
164 %	127 %		
12.9 kW	12.1 kW		
4.18	3.24		
-7 °C	-7 °C		
-20 °C	-20 °C		
11.4 kW	10.7 kW		
2.37	1.83		
0.99	0.99		
6.9 kW	6.5 kW		
4.18	3.13		
0.99	0.99		
6.5 kW	6 kW		
5.63	4.5		
0.99	0.99		
	12.9 kW  4.18  -7 °C  -20 °C  11.4 kW  2.37  0.99  6.9 kW  4.18  0.99  6.5 kW  5.63		

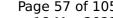


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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.55
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6377 kWh	7708 kWh

Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\xspace$ 57 of 105 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	L	
Efficiency ηDHW	99 %	
СОР	2.33	
Heating up time	01:14 h:min	
Standby power input	58 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	292 I	



# Model: PUHZ-SW120VHA(-BS) + EHST20C-M\*D

Configure model		
Model name	PUHZ-SW120VHA(-BS) + EHST20C-M*D	
Application Heating + DHW + low temp		
its Indoor + Outdoor		
Climate Zone	imate 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	16 kW	15.2 kW	
El input	3.9 kW	6.03 kW	
СОР	4.1	2.52	

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	72 dB(A)	72 dB(A)

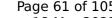
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	162 %	125 %
Prated	12.9 kW	12.1 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	6.9 kW	6.5 kW
COP Tj = +2°C	4.17	3.11
Cdh Tj = +2 °C	1	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.55	4.47
Cdh Tj = +7 °C	1	0.99



Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.5
Cdh Tj = +12 °C	1	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6448 kWh	7790 kWh

### Domestic Hot Water (DHW)

CEN heat pump KEYMARK





# $$\operatorname{\textit{Page}}\xspace$ 61 of 105 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	L	
Efficiency ηDHW	138 %	
СОР	3.25	
Heating up time	01:29 h:min	
Standby power input	35 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	

# Model: PUHZ-SW120VHA(-BS) + EHST20C-\*M\*D

Configure model		
Model name	PUHZ-SW120VHA(-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	16 kW	15.2 kW
El input	3.9 kW	6.03 kW
СОР	4.1	2.52

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	72 dB(A)	72 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	162 %	125 %
Prated	12.9 kW	12.1 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	1	1
Pdh Tj = $+2$ °C	6.9 kW	6.5 kW
COP Tj = +2°C	4.17	3.11
Cdh Tj = +2 °C	1	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.55	4.47
Cdh Tj = +7 °C	1	0.99

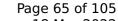


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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

This information was generated by the first term and database on 10 had 2022			
Pdh Tj = 12°C	7.7 kW	7.4 kW	
COP Tj = 12°C	7.32	6.5	
Cdh Tj = +12 °C	1	0.99	
Pdh Tj = Tbiv	11.4 kW	10.7 kW	
COP Tj = Tbiv	2.37	1.83	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74	
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	2.4 kW	2.1 kW	
Annual energy consumption Qhe	6448 kWh	7790 kWh	

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	138 %	
СОР	3.25	
Heating up time	01:29 h:min	
Standby power input	35 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



# Model: PUHZ-SW120VHA(-BS) + EHSC-M\*D

Configure model		
Model name	PUHZ-SW120VHA(-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	16 kW	15.2 kW
El input	3.9 kW	6.03 kW
СОР	4.1	2.52

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	72 dB(A)	72 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	162 %	125 %
Prated	12.9 kW	12.1 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	6.9 kW	6.5 kW
COP Tj = +2°C	4.17	3.11
Cdh Tj = +2 °C	1	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.55	4.47
Cdh Tj = +7 °C	1	0.99



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

Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.5
Cdh Tj = +12 °C	1	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6448 kWh	7790 kWh



# Model: PUHZ-SW120VHA(-BS) + EHSC-\*M\*D

Configure model	
Model name	PUHZ-SW120VHA(-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	16 kW	15.2 kW
El input	3.9 kW	6.03 kW
СОР	4.1	2.52

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	72 dB(A)	72 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	162 %	125 %
Prated	12.9 kW	12.1 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	6.9 kW	6.5 kW
COP Tj = +2°C	4.17	3.11
Cdh Tj = +2 °C	1	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.55	4.47
Cdh Tj = +7 °C	1	0.99



Annual energy consumption Qhe

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7790 kWh

#### This information was generated by the HP KEYMARK database on 18 Mar 2022 Pdh Tj = 12°C 7.7 kW 7.4 kW 7.32 $COPTj = 12^{\circ}C$ 6.5 Cdh Tj = +12 °C 1 0.99 Pdh Tj = Tbiv11.4 kW 10.7 kW COP Tj = Tbiv 2.37 1.83 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 10 kW 10.5 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 1.74 2.14 WTOL 60 °C 60 °C Poff 15 W 15 W PTO 15 W 15 W **PSB** 15 W 15 W **PCK** 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 2.4 kW 2.1 kW

6448 kWh



# Model: PUHZ-SW120VHA(-BS) + ERST20C-\*M\*D

Configure model		
Model name	PUHZ-SW120VHA(-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	16 kW	15.2 kW	
El input	3.9 kW	6.03 kW	
СОР	4.1	2.52	

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Shutting off the heat transfer medium flow	passeu
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	72 dB(A)	72 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	164 %	127 %
Prated	12.9 kW	12.1 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	6.9 kW	6.5 kW
COP Tj = +2°C	4.19	3.13
Cdh Tj = +2 °C	1	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.55	4.47
Cdh Tj = +7 °C	1	0.99

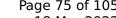


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### This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.5
Cdh Tj = +12 °C	1	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6377 kWh	7710 kWh

Domestic Hot Water (DHW)





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EN 16147	
Declared load profile	L
Efficiency ηDHW	138 %
СОР	3.25
Heating up time	01:29 h:min
Standby power input	35 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



### Model: PUHZ-SW120VHA(-BS) + ERSC-M\*D

Configure model	
Model name	PUHZ-SW120VHA(-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	16 kW	15.2 kW
El input	3.9 kW	6.03 kW
СОР	4.1	2.52

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	72 dB(A)	72 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	164 %	127 %
Prated	12.9 kW	12.1 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	6.9 kW	6.5 kW
COP Tj = +2°C	4.19	3.13
Cdh Tj = +2 °C	1	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.55	4.47
Cdh Tj = +7 °C	1	0.99



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

Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.5
Cdh Tj = +12 °C	1	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6377 kWh	7710 kWh



### Model: PUHZ-SW120VHA(-BS) + ERSC-\*M\*D

Configure model	
Model name	PUHZ-SW120VHA(-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	16 kW	15.2 kW	
El input	3.9 kW	6.03 kW	
СОР	4.1	2.52	

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	72 dB(A)	72 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	164 %	127 %
Prated	12.9 kW	12.1 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
$COPTj = -7^{\circ}C$	2.37	1.83
Cdh Tj = -7 °C	1	1
Pdh Tj = $+2$ °C	6.9 kW	6.5 kW
COP Tj = +2°C	4.19	3.13
Cdh Tj = +2 °C	1	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.55	4.47
Cdh Tj = +7 °C	1	0.99



# $$\operatorname{\textit{Page}}\xspace$ 81 of 105 This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.5
Cdh Tj = +12 °C	1	0.99
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6377 kWh	7710 kWh



### Model: PUHZ-SW120YHA(-BS) + EHST20C-M\*D

Configure model			
Model name	Model name PUHZ-SW120YHA(-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	16 kW	15.2 kW	
El input	3.9 kW	6.03 kW	
СОР	4.1	2.52	

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	72 dB(A)	72 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	162 %	125 %
Prated	12.9 kW	12.1 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	6.9 kW	6.5 kW
COP Tj = +2°C	4.18	3.13
Cdh Tj = +2 °C	1	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.63	4.5
Cdh Tj = +7 °C	1	0.98

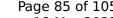


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### This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.55
Cdh Tj = +12 °C	1	0.98
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6458 kWh	7788 kWh

Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\xspace$ 85 of 105 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
Declared load profile	L
Efficiency ηDHW	138 %
СОР	3.25
Heating up time	01:29 h:min
Standby power input	35 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



## Model: PUHZ-SW120YHA(-BS) + EHST20C-\*M\*D

Configure model		
Model name	PUHZ-SW120YHA(-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	16 kW	15.2 kW
El input	3.9 kW	6.03 kW
СОР	4.1	2.52

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	72 dB(A)	72 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	162 %	125 %
Prated	12.9 kW	12.1 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	6.9 kW	6.5 kW
COP Tj = +2°C	4.18	3.13
Cdh Tj = +2 °C	1	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
COP Tj = +7°C	5.63	4.5
Cdh Tj = +7 °C	1	0.98

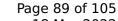


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### This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.55
Cdh Tj = +12 °C	1	0.98
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6458 kWh	7788 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	138 %
СОР	3.25
Heating up time	01:29 h:min
Standby power input	35 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



## Model: PUHZ-SW120YHA(-BS) + EHSC-M\*D

Configure model		
Model name	PUHZ-SW120YHA(-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	16 kW	15.2 kW		
El input	3.9 kW	6.03 kW		
СОР	4.1	2.52		

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	72 dB(A)	72 dB(A)

4023	EN 14825		
Low temperature	Medium temperature		
162 %	125 %		
12.9 kW	12.1 kW		
4.13	3.21		
-7 °C	-7 °C		
-20 °C	-20 °C		
11.4 kW	10.7 kW		
2.37	1.83		
1	1		
6.9 kW	6.5 kW		
4.18	3.13		
1	0.99		
6.5 kW	6 kW		
5.63	4.5		
1	0.98		
	162 %  12.9 kW  4.13  -7 °C  -20 °C  11.4 kW  2.37  1  6.9 kW  4.18  1  6.5 kW  5.63		



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

Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.55
Cdh Tj = +12 °C	1	0.98
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6458 kWh	7788 kWh



### Model: PUHZ-SW120YHA(-BS) + EHSC-\*M\*D

Configure model		
Model name	PUHZ-SW120YHA(-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	16 kW	15.2 kW		
El input	3.9 kW	6.03 kW		
СОР	4.1	2.52		

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	72 dB(A)	72 dB(A)

4023	EN 14825		
Low temperature	Medium temperature		
162 %	125 %		
12.9 kW	12.1 kW		
4.13	3.21		
-7 °C	-7 °C		
-20 °C	-20 °C		
11.4 kW	10.7 kW		
2.37	1.83		
1	1		
6.9 kW	6.5 kW		
4.18	3.13		
1	0.99		
6.5 kW	6 kW		
5.63	4.5		
1	0.98		
	162 %  12.9 kW  4.13  -7 °C  -20 °C  11.4 kW  2.37  1  6.9 kW  4.18  1  6.5 kW  5.63		



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

D.H. T. 120C	7.71.00	7.4.134
Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.55
Cdh Tj = +12 °C	1	0.98
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6458 kWh	7788 kWh



### Model: PUHZ-SW120YHA(-BS) + ERST20C-\*M\*D

Configure model		
Model name PUHZ-SW120YHA(-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	16 kW	15.2 kW
El input	3.9 kW	6.03 kW
СОР	4.1	2.52

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	72 dB(A)	72 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	164 %	127 %
Prated	12.9 kW	12.1 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.4 kW	10.7 kW
COP Tj = -7°C	2.37	1.83
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	6.9 kW	6.5 kW
COP Tj = +2°C	4.18	3.13
Cdh Tj = +2 °C	1	0.99
Pdh Tj = +7°C	6.5 kW	6 kW
$COP Tj = +7^{\circ}C$	5.63	4.5
Cdh Tj = +7 °C	1	0.98

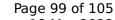


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### This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.55
Cdh Tj = +12 °C	1	0.98
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6377 kWh	7708 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	138 %	
СОР	3.25	
Heating up time	01:29 h:min	
Standby power input	35 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



### Model: PUHZ-SW120YHA(-BS) + ERSC-M\*D

Configure model		
Model name	PUHZ-SW120YHA(-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	16 kW	15.2 kW
El input	3.9 kW	6.03 kW
СОР	4.1	2.52

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	72 dB(A)	72 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	164 %	127 %	
Prated	12.9 kW	12.1 kW	
SCOP	4.18	3.24	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	11.4 kW	10.7 kW	
COP Tj = -7°C	2.37	1.83	
Cdh Tj = -7 °C	1	1	
Pdh Tj = $+2^{\circ}$ C	6.9 kW	6.5 kW	
COP Tj = +2°C	4.18	3.13	
Cdh Tj = +2 °C	1	0.99	
Pdh Tj = $+7^{\circ}$ C	6.5 kW	6 kW	
COP Tj = +7°C	5.63	4.5	
Cdh Tj = +7 °C	1	0.98	



# $$\operatorname{\textit{Page}}\ 102$$ of 105 This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.32	6.55
Cdh Tj = +12 °C	1	0.98
Pdh Tj = Tbiv	11.4 kW	10.7 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6377 kWh	7708 kWh



## Model: PUHZ-SW120YHA(-BS) + ERSC-\*M\*D

Configure model			
Model name	PUHZ-SW120YHA(-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	16 kW	15.2 kW	
El input	3.9 kW	6.03 kW	
СОР	4.1	2.52	

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	72 dB(A)	72 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	164 %	127 %	
Prated	12.9 kW	12.1 kW	
SCOP	4.18	3.24	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	11.4 kW	10.7 kW	
COP Tj = -7°C	2.37	1.83	
Cdh Tj = -7 °C	1	1	
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COP Tj = +2°C	4.18	3.13	
Cdh Tj = +2 °C	1	0.99	
Pdh Tj = $+7^{\circ}$ C	6.5 kW	6 kW	
COP Tj = +7°C	5.63	4.5	
Cdh Tj = +7 °C	1	0.98	



# $$\operatorname{\textit{Page}}\xspace$ 105 of 105 This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	7.7 kW	7.4 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.5 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.74
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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	2.4 kW	2.1 kW
Annual energy consumption Qhe	6377 kWh	7708 kWh