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

Summary of	Ecodan Power Inverter 12	Reg. No.	037-0051-20
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)		
Name of testing laboratory	CETIAT		
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

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

Model: PUHZ-SW120VHA(-BS) + EHSC-VM*C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

Model: PUHZ-SW120VHA(-BS) + EHSC-YM*C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

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

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	99 %
COP	2.33
Heating up time	01:14 h:min
Standby power input	58.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUHZ-SW120VHA(-BS) + EHST20C-VM*C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	99 %
COP	2.33
Heating up time	01:14 h:min
Standby power input	58.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUHZ-SW120VHA(-BS) + EHST20C-YM*C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	99 %
COP	2.33
Heating up time	01:14 h:min
Standby power input	58.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

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

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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
η_s	164 %	127 %
Prated	12.90 kW	12.10 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

Model: PUHZ-SW120VHA(-BS) + ERSC-VM*C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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**
η_s	164 %	127 %
Prated	12.90 kW	12.10 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

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

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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**
η_s	164 %	127 %
Prated	12.90 kW	12.10 kW
SCOP	4.18	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	99 %
COP	2.33
Heating up time	01:14 h:min
Standby power input	58.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUHZ-SW120VHA(-BS) + ERST20C-VM*C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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**
η_s	164 %	127 %
Prated	12.90 kW	12.10 kW
SCOP	4.18	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	99 %
COP	2.33
Heating up time	01:14 h:min
Standby power input	58.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

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

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.20	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	1.74
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

Model: PUHZ-SW120YHA(-BS) + EHSC-VM*C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.20	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	1.74
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

Model: PUHZ-SW120YHA(-BS) + EHSC-YM*C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.20	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	1.74
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

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

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.20	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	1.74
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	99 %
COP	2.33
Heating up time	01:14 h:min
Standby power input	58.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUHZ-SW120YHA(-BS) + EHST20C-VM*C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.20	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	1.74
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	99 %
COP	2.33
Heating up time	01:14 h:min
Standby power input	58.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUHZ-SW120YHA(-BS) + EHST20C-YM*C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.20	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	1.74
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	99 %
COP	2.33
Heating up time	01:14 h:min
Standby power input	58.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

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

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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**
η_s	164 %	127 %
Prated	12.90 kW	12.10 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.20	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	1.74
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

Model: PUHZ-SW120YHA(-BS) + ERSC-VM*C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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**
η_s	164 %	127 %
Prated	12.90 kW	12.10 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.20	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	1.74
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

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

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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**
η_s	164 %	127 %
Prated	12.90 kW	12.10 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.20	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	1.74
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	99 %
COP	2.33
Heating up time	01:14 h:min
Standby power input	58.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUHZ-SW120YHA(-BS) + ERST20C-VM*C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.21 kW
El input	3.90 kW	6.26 kW
COP	4.10	2.43
Indoor water flow rate	2.75 m³/h	1.64 m³/h

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

Average Climate

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**
η_s	164 %	127 %
Prated	12.90 kW	12.10 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.20	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
Cdh	0.99	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	1.74
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.40 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	99 %
COP	2.33
Heating up time	01:14 h:min
Standby power input	58.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

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

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	1.00	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	1.00	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	1.00	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	138 %
COP	3.25
Heating up time	1:29 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Model: PUHZ-SW120VHA(-BS) + EHST20C-VM*D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

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
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	1.00	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	1.00	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	1.00	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	138 %
COP	3.25
Heating up time	1:29 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Model: PUHZ-SW120VHA(-BS) + EHST20C-YM*D

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	1.00	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	1.00	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	1.00	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	138 %
COP	3.25
Heating up time	1:29 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	1.00	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	1.00	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	1.00	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

Model: PUHZ-SW120VHA(-BS) + EHSC-VM*D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

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
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	1.00	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	1.00	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	1.00	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

Model: PUHZ-SW120VHA(-BS) + EHSC-YM*D

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	1.00	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	1.00	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	1.00	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

Model: PUHZ-SW120VHA(-BS) + ERST20C-VM*D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

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**
η_s	164 %	127 %
Prated	12.90 kW	12.10 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	1.00	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	1.00	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	1.00	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	138 %
COP	3.25
Heating up time	1:29 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Model: PUHZ-SW120VHA(-BS) + ERSC-MED

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

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**
η_s	164 %	127 %
Prated	12.90 kW	12.10 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	1.00	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	1.00	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	1.00	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

Model: PUHZ-SW120VHA(-BS) + ERSC-VM*D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

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**
η_s	164 %	127 %
Prated	12.90 kW	12.10 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.17	3.12
Cdh	1.00	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.55	4.47
Cdh	1.00	0.99

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.50
Cdh	1.00	0.99
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	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	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6303 kWh	7643 kWh

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

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.20	3.14
Cdh	1.00	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
Cdh	1.00	0.98

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
Cdh	1.00	0.98
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	1.74
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	138 %
COP	3.25
Heating up time	1:29 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Model: PUHZ-SW120YHA(-BS) + EHST20C-VM*D

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.20	3.14
Cdh	1.00	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
Cdh	1.00	0.98

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
Cdh	1.00	0.98
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	1.74
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	138 %
COP	3.25
Heating up time	1:29 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Model: PUHZ-SW120YHA(-BS) + EHST20C-YM*D

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.20	3.14
Cdh	1.00	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
Cdh	1.00	0.98

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
Cdh	1.00	0.98
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	1.74
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	138 %
COP	3.25
Heating up time	1:29 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

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
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.20	3.14
Cdh	1.00	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
Cdh	1.00	0.98

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
Cdh	1.00	0.98
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	1.74
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

Model: PUHZ-SW120YHA(-BS) + EHSC-VM*D

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.20	3.14
Cdh	1.00	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
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Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
Cdh	1.00	0.98
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	1.74
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

Model: PUHZ-SW120YHA(-BS) + EHSC-YM*D

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

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**
η_s	162 %	125 %
Prated	12.90 kW	12.10 kW
SCOP	4.13	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.20	3.14
Cdh	1.00	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
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Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
Cdh	1.00	0.98
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	1.74
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

Model: PUHZ-SW120YHA(-BS) + ERST20C-VM*D

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

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**
η_s	164 %	127 %
Prated	12.90 kW	12.10 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	6.90 kW	6.50 kW
COP Tj = +2°C	4.20	3.14
Cdh	1.00	0.99
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
Cdh	1.00	0.98

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
Cdh	1.00	0.98
Pdh Tj = Tbiv	11.40 kW	10.70 kW
COP Tj = Tbiv	2.37	1.83
Pdh Tj = TOL	7.70 kW	10.00 kW
COP Tj = TOL	1.38	1.74
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	138 %
COP	3.25
Heating up time	1:29 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	40 dB(A)
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EN 14825		
	Low temperature	**Medium temperature**
η_s	164 %	127 %
Prated	12.90 kW	12.10 kW
SCOP	4.18	3.24
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.40 kW	10.70 kW
COP Tj = -7°C	2.37	1.83
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Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.63	4.50
Cdh	1.00	0.98

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.32	6.55
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Pdh Tj = Tbiv	11.40 kW	10.70 kW
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WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh

Model: PUHZ-SW120YHA(-BS) + ERSC-VM*D

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.20 kW
El input	3.90 kW	6.03 kW
COP	4.10	2.52
Indoor water flow rate	2.75 m³/h	1.63 m³/h

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

Average Climate

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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.35 kW	2.10 kW
Annual energy consumption Qhe	6259 kWh	7603 kWh