

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

Summary of	Ecodan Zubadan 8/11/14	Reg. No.	037-0059-20
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	Austrian Institute of Technology		
Subtype title	Ecodan Zubadan 8/11/14		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	5.5 kg		
Certification Date	09.04.2020		
Testing basis	HP Keymark scheme rules rev. no. 7		

Model: PUAZ-SHW80VHA(-BS) + EHSC-M*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.72 kW	2.83 kW
COP	4.65	2.82
Indoor water flow rate	1.38 m ³ /h	0.86 m ³ /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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	171 %	131 %
Prated	9.60 kW	9.00 kW
SCOP	4.36	3.35
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.50 kW	8.00 kW
COP Tj = -7°C	2.91	2.04
Cdh	0.98	0.98
Pdh Tj = +2°C	5.20 kW	4.90 kW
COP Tj = +2°C	4.31	3.25
Cdh	0.98	0.98
Pdh Tj = +7°C	4.40 kW	4.10 kW
COP Tj = +7°C	5.65	4.59
Cdh	0.98	0.98

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Pdh Tj = 12°C	7.40 kW	7.10 kW
COP Tj = 12°C	7.59	6.72
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.50 kW	8.00 kW
COP Tj = Tbiv	2.91	2.04
Pdh Tj = TOL	5.10 kW	5.10 kW
COP Tj = TOL	1.47	1.55
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	1.60 kW	1.40 kW
Annual energy consumption Qhe	4429 kWh	5452 kWh

Model: PUAZ-SHW80VHA(-BS) + EHSC-VM*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

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EN 14511-4

Shutting off the heat transfer medium flow	passed
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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	1.60 kW	1.40 kW
Annual energy consumption Qhe	4429 kWh	5452 kWh

Model: PUAZ-SHW80VHA(-BS) + EHSC-YM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.72 kW	2.83 kW
COP	4.65	2.82
Indoor water flow rate	1.38 m ³ /h	0.86 m ³ /h

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
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Average Climate

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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	1.60 kW	1.40 kW
Annual energy consumption Qhe	4429 kWh	5452 kWh

Model: PUAZ-SHW80VHA(-BS) + EHST20C-M*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.72 kW	2.83 kW
COP	4.65	2.82
Indoor water flow rate	1.38 m ³ /h	0.86 m ³ /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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PTO	15 W	15 W
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PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	4429 kWh	5452 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW80VHA(-BS) + EHST20C-VM*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.72 kW	2.83 kW
COP	4.65	2.82
Indoor water flow rate	1.38 m ³ /h	0.86 m ³ /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

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PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	4429 kWh	5452 kWh

Domestic Hot Water (DHW)

Average Climate

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COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW80VHA(-BS) + EHST20C-YM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.72 kW	2.83 kW
COP	4.65	2.82
Indoor water flow rate	1.38 m ³ /h	0.86 m ³ /h

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Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	4429 kWh	5452 kWh

Domestic Hot Water (DHW)

Average Climate

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COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW80VHA(-BS) + ERSC-M*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.72 kW	2.83 kW
COP	4.65	2.82
Indoor water flow rate	1.38 m ³ /h	0.86 m ³ /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	174 %	133 %
Prated	9.60 kW	9.00 kW
SCOP	4.44	3.40
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
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Annual energy consumption Qhe	4429 kWh	5452 kWh

Model: PUAZ-SHW80VHA(-BS) + ERSC-VM*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.72 kW	2.83 kW
COP	4.65	2.82
Indoor water flow rate	1.38 m ³ /h	0.86 m ³ /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

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Supplementary Heater: Type of energy input	electricity	electricity
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Annual energy consumption Qhe	4429 kWh	5452 kWh

Model: PUAZ-SHW80VHA(-BS) + ERST20C-M*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
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Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	4429 kWh	5452 kWh

Domestic Hot Water (DHW)

Average Climate

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EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW80VHA(-BS) + ERST20C-VM*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.72 kW	2.83 kW
COP	4.65	2.82
Indoor water flow rate	1.38 m ³ /h	0.86 m ³ /h

EN 14511-4

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Defrost test	passed
Starting and operating test	passed

Average Climate

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Supplementary Heater: PSUP	1.60 kW	1.40 kW
Annual energy consumption Qhe	4429 kWh	5452 kWh

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Average Climate

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EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW112VHA(-BS) + EHSC-M*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	167 %	128 %
Prated	13.90 kW	12.70 kW
SCOP	4.24	3.28
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.98	0.98
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.04	3.12
Cdh	0.98	0.98
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.68	4.61
Cdh	0.98	0.98

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.10 kW	1.80 kW
Annual energy consumption Qhe	6630 kWh	7838 kWh

Model: PUAZ-SHW112VHA(-BS) + EHSC-VM*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	167 %	128 %
Prated	13.90 kW	12.70 kW
SCOP	4.24	3.28
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.98	0.98
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.04	3.12
Cdh	0.98	0.98
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.68	4.61
Cdh	0.98	0.98

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.10 kW	1.80 kW
Annual energy consumption Qhe	6630 kWh	7838 kWh

Model: PUAZ-SHW112VHA(-BS) + EHSC-YM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	167 %	128 %
Prated	13.90 kW	12.70 kW
SCOP	4.24	3.28
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.98	0.98
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.04	3.12
Cdh	0.98	0.98
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.68	4.61
Cdh	0.98	0.98

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.10 kW	1.80 kW
Annual energy consumption Qhe	6630 kWh	7838 kWh

Model: PUAZ-SHW112VHA(-BS) + EHST20C-M*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	167 %	128 %
Prated	13.90 kW	12.70 kW
SCOP	4.24	3.28
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.98	0.98
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.04	3.12
Cdh	0.98	0.98
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.68	4.61
Cdh	0.98	0.98

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.10 kW	1.80 kW
Annual energy consumption Qhe	6630 kWh	7838 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW112VHA(-BS) + EHST20C-VM*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	167 %	128 %
Prated	13.90 kW	12.70 kW
SCOP	4.24	3.28
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.98	0.98
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.04	3.12
Cdh	0.98	0.98
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.68	4.61
Cdh	0.98	0.98

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.10 kW	1.80 kW
Annual energy consumption Qhe	6630 kWh	7838 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW112VHA(-BS) + EHST20C- YM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	167 %	128 %
Prated	13.90 kW	12.70 kW
SCOP	4.24	3.28
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.98	0.98
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.04	3.12
Cdh	0.98	0.98
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.68	4.61
Cdh	0.98	0.98

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.10 kW	1.80 kW
Annual energy consumption Qhe	6630 kWh	7838 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW112VHA(-BS) + ERSC-M*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	169 %	130 %
Prated	13.90 kW	12.70 kW
SCOP	4.29	3.31
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.98	0.98
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.04	3.12
Cdh	0.98	0.98
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.68	4.61
Cdh	0.98	0.98

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.10 kW	1.80 kW
Annual energy consumption Qhe	6630 kWh	7838 kWh

Model: PUAZ-SHW112VHA(-BS) + ERSC-VM*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	169 %	130 %
Prated	13.90 kW	12.70 kW
SCOP	4.29	3.31
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.98	0.98
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.04	3.12
Cdh	0.98	0.98
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.68	4.61
Cdh	0.98	0.98

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.10 kW	1.80 kW
Annual energy consumption Qhe	6630 kWh	7838 kWh

Model: PUAZ-SHW112VHA(-BS) + ERST20C-M*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	169 %	130 %
Prated	13.90 kW	12.70 kW
SCOP	4.29	3.31
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.98	0.98
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.04	3.12
Cdh	0.98	0.98
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.68	4.61
Cdh	0.98	0.98

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.10 kW	1.80 kW
Annual energy consumption Qhe	6630 kWh	7838 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW112VHA(-BS) + ERST20C-VM*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	169 %	130 %
Prated	13.90 kW	12.70 kW
SCOP	4.29	3.31
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.98	0.98
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.04	3.12
Cdh	0.98	0.98
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.68	4.61
Cdh	0.98	0.98

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.98	0.98
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.10 kW	1.80 kW
Annual energy consumption Qhe	6630 kWh	7838 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW140YHA(-BS) + EHSC-M*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	164 %	127 %
Prated	17.00 kW	15.80 kW
SCOP	4.16	3.25
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	0.99
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh	0.99	0.99
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.90 kW	2.50 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Model: PUAZ-SHW140YHA(-BS) + EHSC-VM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	164 %	127 %
Prated	17.00 kW	15.80 kW
SCOP	4.16	3.25
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	0.99
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh	0.99	0.99
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.90 kW	2.50 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Model: PUAZ-SHW140YHA(-BS) + EHSC-YM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	164 %	127 %
Prated	17.00 kW	15.80 kW
SCOP	4.16	3.25
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	0.99
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh	0.99	0.99
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.90 kW	2.50 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Model: PUAZ-SHW140YHA(-BS) + EHST20C-M*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	164 %	127 %
Prated	17.00 kW	15.80 kW
SCOP	4.16	3.25
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	0.99
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh	0.99	0.99
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.90 kW	2.50 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW140YHA(-BS) + EHST20C-VM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	164 %	127 %
Prated	17.00 kW	15.80 kW
SCOP	4.16	3.25
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	0.99
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh	0.99	0.99
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.90 kW	2.50 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW140YHA(-BS) + EHST20C-YM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	164 %	127 %
Prated	17.00 kW	15.80 kW
SCOP	4.16	3.25
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	0.99
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh	0.99	0.99
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.90 kW	2.50 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW140YHA(-BS) + ERSC-M*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	165 %	128 %
Prated	17.00 kW	15.80 kW
SCOP	4.21	3.27
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	0.99
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh	0.99	0.99
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.90 kW	2.50 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Model: PUAZ-SHW140YHA(-BS) + ERSC-VM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	165 %	128 %
Prated	17.00 kW	15.80 kW
SCOP	4.21	3.27
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	0.99
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh	0.99	0.99
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.90 kW	2.50 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Model: PUAZ-SHW140YHA(-BS) + ERST20C-M*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	165 %	128 %
Prated	17.00 kW	15.80 kW
SCOP	4.21	3.27
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	0.99
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh	0.99	0.99
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.90 kW	2.50 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW140YHA(-BS) + ERST20C-VM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	165 %	128 %
Prated	17.00 kW	15.80 kW
SCOP	4.21	3.27
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	0.99
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh	0.99	0.99
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.90 kW	2.50 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW112YHA(-BS) + EHSC-M*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	167 %	128 %
Prated	13.90 kW	12.70 kW
SCOP	4.24	3.28
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.99	0.99
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.07	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.72	4.65
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.99	0.99
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.30 kW	2.00 kW
Annual energy consumption Qhe	6590 kWh	7792 kWh

Model: PUAZ-SHW112YHA(-BS) + EHSC-VM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	167 %	128 %
Prated	13.90 kW	12.70 kW
SCOP	4.24	3.28
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.99	0.99
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.07	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.72	4.65
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.99	0.99
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.30 kW	2.00 kW
Annual energy consumption Qhe	6590 kWh	7792 kWh

Model: PUAZ-SHW112YHA(-BS) + EHSC-YM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	167 %	128 %
Prated	13.90 kW	12.70 kW
SCOP	4.24	3.28
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.99	0.99
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.07	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.72	4.65
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.99	0.99
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.30 kW	2.00 kW
Annual energy consumption Qhe	6590 kWh	7792 kWh

Model: PUAZ-SHW112YHA(-BS) + EHST20C-M*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	167 %	128 %
Prated	13.90 kW	12.70 kW
SCOP	4.24	3.28
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.99	0.99
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.07	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.72	4.65
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.99	0.99
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.30 kW	2.00 kW
Annual energy consumption Qhe	6590 kWh	7792 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW112YHA(-BS) + EHST20C-VM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	167 %	128 %
Prated	13.90 kW	12.70 kW
SCOP	4.24	3.28
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.99	0.99
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.07	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.72	4.65
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.99	0.99
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.30 kW	2.00 kW
Annual energy consumption Qhe	6590 kWh	7792 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW112YHA(-BS) + EHST20C-YM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	167 %	128 %
Prated	13.90 kW	12.70 kW
SCOP	4.24	3.28
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.99	0.99
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.07	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.72	4.65
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.99	0.99
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.30 kW	2.00 kW
Annual energy consumption Qhe	6590 kWh	7792 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW112YHA(-BS) + ERSC-M*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	169 %	130 %
Prated	13.90 kW	12.70 kW
SCOP	4.29	3.31
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.99	0.99
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.07	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.72	4.65
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.99	0.99
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.30 kW	2.00 kW
Annual energy consumption Qhe	6590 kWh	7792 kWh

Model: PUAZ-SHW112YHA(-BS) + ERSC-VM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	169 %	130 %
Prated	13.90 kW	12.70 kW
SCOP	4.29	3.31
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.99	0.99
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.07	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.72	4.65
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.99	0.99
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.30 kW	2.00 kW
Annual energy consumption Qhe	6590 kWh	7792 kWh

Model: PUAZ-SHW112YHA(-BS) + ERST20C-M*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	169 %	130 %
Prated	13.90 kW	12.70 kW
SCOP	4.29	3.31
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.99	0.99
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.07	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.72	4.65
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.99	0.99
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.30 kW	2.00 kW
Annual energy consumption Qhe	6590 kWh	7792 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW112YHA(-BS) + ERST20C-VM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.19 kW
COP	4.46	2.67
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	169 %	130 %
Prated	13.90 kW	12.70 kW
SCOP	4.29	3.31
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	2.85	1.96
Cdh	0.99	0.99
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.07	3.14
Cdh	0.99	0.99
Pdh Tj = +7°C	4.80 kW	4.40 kW
COP Tj = +7°C	5.72	4.65
Cdh	0.99	0.99

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.51	6.66
Cdh	0.99	0.99
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	2.85	1.96
Pdh Tj = TOL	7.50 kW	7.50 kW
COP Tj = TOL	1.45	1.53
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	2.30 kW	2.00 kW
Annual energy consumption Qhe	6590 kWh	7792 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.48
Heating up time	01:46 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SHW140YHA(-BS) + EHST20C-M*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	163 %	127 %
Prated	17.00 kW	15.80 kW
SCOP	4.16	3.25
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	1.00
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh	0.99	0.98

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh	0.99	0.98
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.86 kW	2.51 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	138 %
COP	3.25
Heating up time	1:32 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Model: PUAZ-SHW140YHA(-BS) + EHST20C-VM*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	163 %	127 %
Prated	17.00 kW	15.80 kW
SCOP	4.16	3.25
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	1.00
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh	0.99	0.98

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh	0.99	0.98
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.86 kW	2.51 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	138 %
COP	3.25
Heating up time	1:32 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Model: PUAZ-SHW140YHA(-BS) + EHST20C-YM*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	163 %	127 %
Prated	17.00 kW	15.80 kW
SCOP	4.16	3.25
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	1.00
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh	0.99	0.98

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh	0.99	0.98
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.86 kW	2.51 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	138 %
COP	3.25
Heating up time	1:32 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Model: PUAZ-SHW140YHA(-BS) + EHSC-M*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	163 %	127 %
Prated	17.00 kW	15.80 kW
SCOP	4.16	3.25
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	1.00
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh	0.99	0.98

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh	0.99	0.98
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.86 kW	2.51 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Model: PUAZ-SHW140YHA(-BS) + EHSC-VM*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	163 %	127 %
Prated	17.00 kW	15.80 kW
SCOP	4.16	3.25
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	1.00
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh	0.99	0.98

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh	0.99	0.98
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.86 kW	2.51 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Model: PUAZ-SHW140YHA(-BS) + EHSC-YM*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	163 %	127 %
Prated	17.00 kW	15.80 kW
SCOP	4.16	3.25
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	1.00
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh	0.99	0.98

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh	0.99	0.98
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.86 kW	2.51 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Model: PUAZ-SHW140YHA(-BS) + ERST20C-VM*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	165 %	128 %
Prated	17.00 kW	15.80 kW
SCOP	4.21	3.27
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	1.00
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh	0.99	0.98

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

Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh	0.99	0.98
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.86 kW	2.51 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	138 %
COP	3.25
Heating up time	1:32 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Model: PUAZ-SHW140YHA(-BS) + ERSC-M*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825

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Prated	17.00 kW	15.80 kW
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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	2.86 kW	2.51 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh

Model: PUAZ-SHW140YHA(-BS) + ERSC-VM*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
COP	4.22	2.49
Indoor water flow rate	2.41 m ³ /h	1.51 m ³ /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	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	165 %	128 %
Prated	17.00 kW	15.80 kW
SCOP	4.21	3.27
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh	0.99	1.00
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.04	3.13
Cdh	0.99	0.99
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
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COP Tj = 12°C	7.47	6.62
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Pdh Tj = Tbiv	15.00 kW	14.00 kW
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Pdh Tj = TOL	9.00 kW	9.00 kW
COP Tj = TOL	1.43	1.50
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	2.86 kW	2.51 kW
Annual energy consumption Qhe	8222 kWh	9869 kWh