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Summary of	Ecodan Zubadan 8/11 AA	Reg. No.	037-0058-20
Certificate Holder			
Name	Mitsubishi Electric Air Conditioning Systems Europe LTD		
Address	Nettlehill Road, Houston Industrial Estate	Zip	EH54 5EQ
City	Livingston	Country	United Kingdom
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)		
Subtype title	Ecodan Zubadan 8/11 AA		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	4.6 kg		
Certification Date	09.04.2020		
Testing basis	HP Keymark scheme rules rev. no. 7		

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

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

General Data	
Power supply	1x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4602 kWh	5465 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.45
Heating up time	01:57 h:min
Standby power input	42 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

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

General Data	
Power supply	1x230V 50Hz

Heating

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

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

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	169 %	133 %
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Pdh Tj = -7°C	8.5 kW	8 kW
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Cdh Tj = -7 °C	0.97	0.98
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4602 kWh	5465 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.45
Heating up time	01:57 h:min
Standby power input	42 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

Configure model	
Model name	PUHZ-SHW80VAA(-BS) + ERST20C-M*C
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	172 %	135 %
Prated	9.6 kW	9 kW
SCOP	4.38	3.45
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.5 kW	8 kW
COP Tj = -7°C	3.15	2.13
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.08	3.31
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	5.4 kW
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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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4531 kWh	5393 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.45
Heating up time	01:57 h:min
Standby power input	42 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

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Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

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	Low temperature	Medium temperature
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Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

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EN 12102-1

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Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.08	3.31
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Supplementary Heater: PSUP	1.24 kW	1.07 kW
Annual energy consumption Qhe	4531 kWh	5393 kWh

Domestic Hot Water (DHW)

Average Climate

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Mixed water at 40°C	278 l

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

Configure model

Model name	PUHZ-SHW80VAA(-BS) + EHSC-M*C
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8 kW	8 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.7

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
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EN 14825

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PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.24 kW	1.07 kW
Annual energy consumption Qhe	4602 kWh	5465 kWh

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

Configure model

Model name	PUHZ-SHW80VAA(-BS) + EHSC-*M*C
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8 kW	8 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.7

EN 14511-4

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

Average Climate

EN 12102-1

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EN 14825

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PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.24 kW	1.07 kW
Annual energy consumption Qhe	4602 kWh	5465 kWh

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

Configure model

Model name	PUHZ-SHW80VAA(-BS) + ERSC-M*C
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8 kW	8 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.7

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	172 %	135 %
Prated	9.6 kW	9 kW
SCOP	4.38	3.45
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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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4531 kWh	5393 kWh

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

Configure model

Model name	PUHZ-SHW80VAA(-BS) + ERSC-*M*C
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8 kW	8 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.7

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
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EN 14825

	Low temperature	Medium temperature
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Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.08	3.31
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.66
Cdh Tj = +7 °C	0.97	0.98

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

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COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4531 kWh	5393 kWh

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

Configure model

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

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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Pdh Tj = 12°C	5.6 kW	5.3 kW
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Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.1 kW	1.8 kW
Annual energy consumption Qhe	6618 kWh	7588 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.45
Heating up time	01:57 h:min
Standby power input	42 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

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

General Data	
Power supply	1x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6618 kWh	7588 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.45
Heating up time	01:57 h:min
Standby power input	42 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

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

General Data	
Power supply	1x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6539 kWh	7498 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.45
Heating up time	01:57 h:min
Standby power input	42 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

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

General Data	
Power supply	1x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6539 kWh	7498 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.45
Heating up time	01:57 h:min
Standby power input	42 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

Configure model

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

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6618 kWh	7588 kWh

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

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

General Data	
Power supply	1x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6618 kWh	7588 kWh

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

Configure model

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

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6539 kWh	7498 kWh

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

Configure model

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

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6539 kWh	7498 kWh

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

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

General Data	
Power supply	3x400V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4659 kWh	5527 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.45
Heating up time	01:57 h:min
Standby power input	46 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

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

General Data	
Power supply	3x400V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4659 kWh	5527 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.45
Heating up time	01:57 h:min
Standby power input	46 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

Configure model

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8 kW	8 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.7

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4539 kWh	5413 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.45
Heating up time	01:57 h:min
Standby power input	46 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

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

General Data	
Power supply	3x400V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4539 kWh	5413 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.45
Heating up time	01:57 h:min
Standby power input	46 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

Configure model

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8 kW	8 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.7

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4659 kWh	5527 kWh

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

Configure model

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8 kW	8 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.7

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4659 kWh	5527 kWh

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

Configure model

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8 kW	8 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.7

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4539 kWh	5413 kWh

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

Configure model

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8 kW	8 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.7

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4539 kWh	5413 kWh

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

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

General Data	
Power supply	3x400V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6667 kWh	7621 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.45
Heating up time	01:57 h:min
Standby power input	46 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

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

General Data	
Power supply	3x400V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6667 kWh	7621 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.45
Heating up time	01:57 h:min
Standby power input	46 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

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

General Data	
Power supply	3x400V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6538 kWh	7517 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.45
Heating up time	01:57 h:min
Standby power input	46 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

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

General Data	
Power supply	3x400V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6538 kWh	7517 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.45
Heating up time	01:57 h:min
Standby power input	46 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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

Configure model

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6667 kWh	7621 kWh

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

Configure model

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6667 kWh	7621 kWh

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

Configure model

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6538 kWh	7517 kWh

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

Configure model

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6538 kWh	7517 kWh

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

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

General Data	
Power supply	1x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4602 kWh	5465 kWh

Domestic Hot Water (DHW)

Average Climate

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

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

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

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

General Data	
Power supply	1x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4602 kWh	5465 kWh

Domestic Hot Water (DHW)

Average Climate

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

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

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

Configure model	
Model name	PUHZ-SHW80VAA(-BS) + ERST20C-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4531 kWh	5393 kWh

Domestic Hot Water (DHW)

Average Climate

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

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

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

Configure model

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

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8 kW	8 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.7

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4602 kWh	5465 kWh

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

Configure model

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

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8 kW	8 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.7

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4602 kWh	5465 kWh

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

Configure model

Model name	PUHZ-SHW80VAA(-BS) + ERSC-M*D
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8 kW	8 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.7

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4531 kWh	5393 kWh

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

Configure model	
Model name	PUHZ-SHW80VAA(-BS) + ERSC-*M*D
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4531 kWh	5393 kWh

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

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

General Data	
Power supply	1x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6618 kWh	7588 kWh

Domestic Hot Water (DHW)

Average Climate

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

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

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

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

General Data	
Power supply	1x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6618 kWh	7588 kWh

Domestic Hot Water (DHW)

Average Climate

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

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

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

General Data	
Power supply	1x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6539 kWh	7498 kWh

Domestic Hot Water (DHW)

Average Climate

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

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

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

Configure model

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

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6618 kWh	7588 kWh

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

Configure model

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

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6618 kWh	7588 kWh

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

Configure model

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

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6539 kWh	7498 kWh

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

Configure model

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

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6539 kWh	7498 kWh

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

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

General Data	
Power supply	3x400V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4659 kWh	5527 kWh

Domestic Hot Water (DHW)

Average Climate

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

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

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

General Data	
Power supply	3x400V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4659 kWh	5527 kWh

Domestic Hot Water (DHW)

Average Climate

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

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

Configure model

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8 kW	8 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.7

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4539 kWh	5413 kWh

Domestic Hot Water (DHW)

Average Climate

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

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

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

Configure model

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8 kW	8 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.7

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4659 kWh	5527 kWh

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

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

General Data	
Power supply	3x400V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4659 kWh	5527 kWh

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

Configure model	
Model name	PUAZ-SHW80YAA(-BS) + ERSC-M*D
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4539 kWh	5413 kWh

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

Configure model

Model name	PUHZ-SHW80YAA(-BS) + ERSC-*M*D
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8 kW	8 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.7

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.53	5.92
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.36 kW	7.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.24 kW	1.07 kW
Annual energy consumption Qhe	4539 kWh	5413 kWh

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

Configure model

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6667 kWh	7621 kWh

Domestic Hot Water (DHW)

Average Climate

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

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

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

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

General Data	
Power supply	3x400V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6667 kWh	7621 kWh

Domestic Hot Water (DHW)

Average Climate

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

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

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

General Data	
Power supply	3x400V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6538 kWh	7517 kWh

Domestic Hot Water (DHW)

Average Climate

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

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

Configure model

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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

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

Pdh Tj = 12°C	5.6 kW	5.3 kW
COP Tj = 12°C	7.45	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.3 kW	11.2 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.8 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.03
WTOL	60 °C	60 °C
Poff	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	2.1 kW	1.8 kW
Annual energy consumption Qhe	6667 kWh	7621 kWh

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

Configure model

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

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Supplementary Heater: Type of energy input	Electricity	Electricity
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Annual energy consumption Qhe	6667 kWh	7621 kWh

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

Configure model

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	173 %	137 %
Prated	13.9 kW	12.7 kW
SCOP	4.39	3.49
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.3 kW	11.2 kW
COP Tj = -7°C	3.15	2.12
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	7.5 kW	6.8 kW
COP Tj = +2°C	4.12	3.33
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	4.7 kW
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.1 kW	1.8 kW
Annual energy consumption Qhe	6538 kWh	7517 kWh

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

Configure model

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
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