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

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

## Configure model

Model name	PUHZ-SW100VAA(-BS) + EHSC-M*C
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

## General Data

Power supply	1x230V 50Hz
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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
$\eta_s$	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98

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Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5156 kWh	6204 kWh

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

## Configure model

Model name	PUHZ-SW100VAA(-BS) + EHSC-*M*C
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

## General Data

Power supply	1x230V 50Hz
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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
$\eta_s$	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98

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Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5156 kWh	6204 kWh

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

## Configure model

Model name	PUHZ-SW100VAA(-BS) + EHST20C-M*C
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

## General Data

Power supply	1x230V 50Hz
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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
$\eta_s$	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98

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

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

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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: PUHZ-SW100VAA(-BS) + EHST20C-\*M\*C

Configure model	
Model name	PUHZ-SW100VAA(-BS) + EHST20C-*M*C
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
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
$\eta_s$	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98

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Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5156 kWh	6204 kWh

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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-SW100VAA(-BS) + ERSC-M\*C

## Configure model

Model name	PUHZ-SW100VAA(-BS) + ERSC-M*C
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

## General Data

Power supply	1x230V 50Hz
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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
$\eta_s$	170 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98

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

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

## Configure model

Model name	PUHZ-SW100VAA(-BS) + ERSC-*M*C
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

## General Data

Power supply	1x230V 50Hz
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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
$\eta_s$	170 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98

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

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

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

Configure model	
Model name	PUHZ-SW100VAA(-BS) + ERST20C-M*C
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
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
$\eta_s$	170 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98

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

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

## Domestic Hot Water (DHW)

### Average Climate



<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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-SW100VAA(-BS) + ERST20C-\*M\*C

Configure model	
Model name	PUHZ-SW100VAA(-BS) + ERST20C-*M*C
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
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
$\eta_s$	170 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98

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

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

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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-SW100YAA(-BS) + EHSC-M\*C

### Configure model

Model name	PUHZ-SW100YAA(-BS) + EHSC-M*C
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

### General Data

Power supply	3x400V 50Hz
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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
$\eta_s$	165 %	129 %
Prated	10.6 kW	10 kW
SCOP	4.21	3.3
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.14	3.18
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.96	0.97

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

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



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

Configure model	
Model name	PUHZ-SW100YAA(-BS) + EHSC-*M*C
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
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
$\eta_s$	165 %	129 %
Prated	10.6 kW	10 kW
SCOP	4.21	3.3
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.14	3.18
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.96	0.97

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

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

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

Configure model	
Model name	PUHZ-SW100YAA(-BS) + EHST20C-M*C
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
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
$\eta_s$	165 %	129 %
Prated	10.6 kW	10 kW
SCOP	4.21	3.3
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.14	3.18
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.96	0.97

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

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

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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: PUHZ-SW100YAA(-BS) + EHST20C-\*M\*C

Configure model	
Model name	PUHZ-SW100YAA(-BS) + EHST20C-*M*C
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
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
$\eta_s$	165 %	129 %
Prated	10.6 kW	10 kW
SCOP	4.21	3.3
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.14	3.18
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.96	0.97

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

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

## Domestic Hot Water (DHW)

### Average Climate

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

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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-SW100YAA(-BS) + ERSC-M\*C

Configure model	
Model name	PUHZ-SW100YAA(-BS) + ERSC-M*C
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	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
$\eta_s$	169 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.2	3.22
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.96	0.97

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

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

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

## Configure model

Model name	PUHZ-SW100YAA(-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
$\eta_s$	169 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.2	3.22
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.96	0.97



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

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

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

Configure model	
Model name	PUHZ-SW100YAA(-BS) + ERST20C-M*C
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
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
$\eta_s$	169 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.2	3.22
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.96	0.97

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

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

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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: PUHZ-SW100YAA(-BS) + ERST20C-\*M\*C

Configure model	
Model name	PUHZ-SW100YAA(-BS) + ERST20C-*M*C
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.51 kW	4.13 kW
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
$\eta_s$	169 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.96	0.97
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.2	3.22
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.96	0.97

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

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

## Domestic Hot Water (DHW)

### Average Climate



<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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-SW100VAA(-BS) + EHST20C-M\*D

Configure model	
Model name	PUHZ-SW100VAA(-BS) + EHST20C-M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

## Heating

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

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

## 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
$\eta_s$	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.98

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

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

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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-SW100YAA(-BS) + EHST20C-M\*D

## Configure model

Model name	PUHZ-SW100YAA(-BS) + EHST20C-M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

## General Data

Power supply	3x400V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.52 kW	4.31 kW
COP	4.45	2.6

### EN 14511-4

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

## 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
$\eta_s$	165 %	129 %
Prated	10.6 kW	10 kW
SCOP	4.21	3.3
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.14	3.18
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98

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

Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5204 kWh	6262 kWh

## Domestic Hot Water (DHW)

### Average Climate



<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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: PUHZ-SW100YAA(-BS) + EHST20C-\*M\*D

Configure model	
Model name	PUHZ-SW100YAA(-BS) + EHST20C-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

## Heating

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

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

## 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
$\eta_s$	165 %	129 %
Prated	10.6 kW	10 kW
SCOP	4.21	3.3
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.14	3.18
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98

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

Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5204 kWh	6262 kWh

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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-SW100YAA(-BS) + EHSC-M\*D

## Configure model

Model name	PUHZ-SW100YAA(-BS) + EHSC-M*D
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

## General Data

Power supply	3x400V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.52 kW	4.31 kW
COP	4.45	2.6

### EN 14511-4

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

## 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
$\eta_s$	165 %	129 %
Prated	10.6 kW	10 kW
SCOP	4.21	3.3
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.14	3.18
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98

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

Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5204 kWh	6262 kWh



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

## Configure model

Model name	PUHZ-SW100YAA(-BS) + EHSC-*M*D
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

## General Data

Power supply	3x400V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.52 kW	4.31 kW
COP	4.45	2.6

### EN 14511-4

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

## 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
$\eta_s$	165 %	129 %
Prated	10.6 kW	10 kW
SCOP	4.21	3.3
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.14	3.18
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98

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

Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5204 kWh	6262 kWh

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

Configure model	
Model name	PUHZ-SW100YAA(-BS) + ERST20C-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

## Heating

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

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

## 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
$\eta_s$	169 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.2	3.22
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98

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

Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5086 kWh	6141 kWh

## Domestic Hot Water (DHW)

### Average Climate

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

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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-SW100YAA(-BS) + ERSC-M\*D

Configure model	
Model name	PUHZ-SW100YAA(-BS) + ERSC-M*D
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

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

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

### 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
$\eta_s$	169 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.2	3.22
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98

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

Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5086 kWh	6141 kWh

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

## Configure model

Model name	PUHZ-SW100YAA(-BS) + ERSC-*M*D
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

## General Data

Power supply	3x400V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.52 kW	4.31 kW
COP	4.45	2.6

### EN 14511-4

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

## 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
$\eta_s$	169 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.2	3.22
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98

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

Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.96	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	22 W	22 W
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5086 kWh	6141 kWh

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

Configure model	
Model name	PUHZ-SW100VAA(-BS) + EHST20C-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

## Heating

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

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

## 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
$\eta_s$	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.98

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

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

## Domestic Hot Water (DHW)

### Average Climate



<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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-SW100VAA(-BS) + EHSC-M\*D

Configure model	
Model name	PUHZ-SW100VAA(-BS) + EHSC-M*D
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

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

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

### 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
$\eta_s$	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.98

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

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

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

## Configure model

Model name	PUHZ-SW100VAA(-BS) + EHSC-*M*D
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

## General Data

Power supply	1x230V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.52 kW	4.31 kW
COP	4.45	2.6

### EN 14511-4

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

## 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
$\eta_s$	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.98

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

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

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

Configure model	
Model name	PUHZ-SW100VAA(-BS) + ERST20C-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

## Heating

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

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

## 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
$\eta_s$	170 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.98

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

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

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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-SW100VAA(-BS) + ERSC-M\*D

## Configure model

Model name	PUHZ-SW100VAA(-BS) + ERSC-M*D
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

## General Data

Power supply	1x230V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.52 kW	4.31 kW
COP	4.45	2.6

### EN 14511-4

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

## 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
$\eta_s$	170 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
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This information was generated by the HP KEYMARK database on 18 Mar 2022

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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
WTOL	60 °C	60 °C
Poff	15 W	15 W
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5070 kWh	6130 kWh

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

Configure model	
Model name	PUHZ-SW100VAA(-BS) + ERSC-*M*D
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

## Heating

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

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

## 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
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