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Summary of	Ecodan Zubadan 8/11-300D AA	Reg. No.	037-0016-20
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 8/11-300D AA		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	4.6 kg		
Certification Date	14.02.2020		
Testing basis	HP Keymark scheme rules rev. no. 6		

# Model: PUAZ-SHW80VAA + EHST30C-\*M\*D

## Configure model

Model name	PUHZ-SHW80VAA + EHST30C-*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
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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

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

### 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
$\eta_s$	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

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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	0.98	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

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	120 %
COP	2.9
Heating up time	03:41 h:min
Standby power input	41 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

# Model: PUAZ-SHW80VAA + EHST30C-M\*D

## Configure model

Model name	PUAZ-SHW80VAA + EHST30C-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
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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

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

### 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
$\eta_s$	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

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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	0.98	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



<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	120 %
COP	2.9
Heating up time	03:41 h:min
Standby power input	41 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

# Model: PUAZ-SHW80VAA + ERST30C-\*M\*D

## Configure model

Model name	PUHZ-SHW80VAA + ERST30C-*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
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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
$\eta_s$	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 18 Mar 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

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	120 %
COP	2.9
Heating up time	03:41 h:min
Standby power input	41 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

# Model: PUAZ-SHW80YAA + EHST30C-\*M\*D

## Configure model

Model name	PUHZ-SHW80YAA + EHST30C-*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	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
$\eta_s$	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	1
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.02	3.27
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.64
Cdh Tj = +7 °C	0.98	0.99

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



<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	120 %
COP	2.9
Heating up time	03:41 h:min
Standby power input	41 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

# Model: PUAZ-SHW80YAA + EHST30C-M\*D

## Configure model

Model name	PUHZ-SHW80YAA + EHST30C-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	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

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

### 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
$\eta_s$	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	1
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.02	3.27
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5 kW	5.4 kW
COP Tj = +7°C	5.62	4.64
Cdh Tj = +7 °C	0.98	0.99

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

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	120 %
COP	2.9
Heating up time	03:41 h:min
Standby power input	41 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

# Model: PUAZ-SHW80YAA + ERST30C-\*M\*D

## Configure model

Model name	PUHZ-SHW80YAA + ERST30C-*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

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

### 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
$\eta_s$	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	1
Pdh Tj = +2°C	5.2 kW	4.9 kW
COP Tj = +2°C	4.09	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	4.64
Cdh Tj = +7 °C	0.98	0.99

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



<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	120 %
COP	2.9
Heating up time	03:41 h:min
Standby power input	41 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

# Model: PUAZ-SHW112VAA + EHST30C-\*M\*D

## Configure model

Model name	PUHZ-SHW112VAA + EHST30C-*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
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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
$\eta_s$	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	0.99

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

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	120 %
COP	2.9
Heating up time	03:41 h:min
Standby power input	41 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

# Model: PUAZ-SHW112VAA + EHST30C-M\*D

## Configure model

Model name	PUHZ-SHW112VAA + EHST30C-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
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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

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

### 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
$\eta_s$	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	0.99

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

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	120 %
COP	2.9
Heating up time	03:41 h:min
Standby power input	41 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

# Model: PUAZ-SHW112VAA + ERST30C-\*M\*D

## Configure model

Model name	PUAZ-SHW112VAA + ERST30C-*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
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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
$\eta_s$	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	0.99

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

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	120 %
COP	2.9
Heating up time	03:41 h:min
Standby power input	41 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

# Model: PUAZ-SHW112YAA + EHST30C-\*M\*D

## Configure model

Model name	PUHZ-SHW112YAA + EHST30C-*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

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

### 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 %	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	1	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	0.98	0.99

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



<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	120 %
COP	2.9
Heating up time	03:41 h:min
Standby power input	41 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

# Model: PUAZ-SHW112YAA + EHST30C-M\*D

## Configure model

Model name	PUHZ-SHW112YAA + EHST30C-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

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

### 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 %	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	1	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	0.98	0.99

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

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	120 %
COP	2.9
Heating up time	03:41 h:min
Standby power input	41 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

# Model: PUAZ-SHW112YAA + ERST30C-\*M\*D

## Configure model

Model name	PUHZ-SHW112YAA + ERST30C-*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	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

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

### 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
$\eta_s$	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	1	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	0.98	0.99

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



<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	120 %
COP	2.9
Heating up time	03:41 h:min
Standby power input	41 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l