Subtype Ecodan Power Inverter 10/12/14-300E Packaged R290

Certificate Holder	Mitsubishi Electric Air Conditioning Systems Europe LTD
Address	Nettlehill Road, Houston Industrial Estate
ZIP	EH54 5EQ
City	Livingston
Country	GB
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)
Subtype title	Ecodan Power Inverter 10/12/14-300E Packaged R290
Registration number	037-162-25
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.82 kg
Certification Date	25.02.2025
Testing basis	HP Keymark certification scheme rules rev. no.13
Testing laboratory	SZU Brno, CZ

Model PUZ-WZ100VAA(-BS) + EHPT30X-*M**E	
Model name	PUZ-WZ100VAA(-BS) + EHPT30X-*M**E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	123 %
COP	2.95
Heating up time	2:22 h:min
Standby power input	49 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

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

EN 14511-2 | Heating	Low temperature	Medium temperature
Heat output	5.8 kW	10 kW
El input	1.14 kW	2.02 kW
COP	5.1	2.9

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	185 %	139 %

Prated	9.5 kW	9.5 kW
SCOP	4.7	3.56
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.4 kW	8.4 kW
COP Tj = -7°C	3.13	2.05
Cdh Tj = -7 °C	0.992	0.995
Pdh Tj = +2°C	5.12 kW	5.12 kW
COP Tj = +2°C	4.62	3.52
Cdh Tj = +2 °C	0.98	0.985
Pdh Tj = +7°C	4.2 kW	3.81 kW
COP Tj = +7°C	6.5	5.03
Cdh Tj = +7 °C	0.966	0.971
Pdh Tj = 12°C	4.15 kW	4.35 kW
COP Tj = 12°C	7.02	6.22
Cdh Tj = +12 °C	0.963	0.969
Pdh Tj = Tbiv	8.4 kW	8.4 kW
COP Tj = Tbiv	3.13	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.4 kW	9.4 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
WTOL	75 °C	75 °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	0.1 kW	0.1 kW
Annual energy consumption Qhe	4177 kWh	5517 kWh

EN 12102-1 | Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate		
	Low temperature	Medium temperature
ηs	240 %	164 %
Prated	9.5 kW	9.5 kW
SCOP	6.07	4.17
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.5 kW	9.5 kW

COP Tj = +2°C	3.16	2.15
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	6.11 kW	6.11 kW
COP Tj = +7°C	6.57	3.87
Cdh Tj = +7 °C	0.976	0.986
Pdh Tj = 12°C	4.25 kW	4.18 kW
COP Tj = 12°C	7.08	5.4
Cdh Tj = +12 °C	0.963	0.972
Pdh Tj = Tbiv	9.5 kW	9.5 kW
COP Tj = Tbiv	3.16	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.5 kW	9.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.16	2.15
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	75 °C	75 °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	0 kW	0 kW
Annual energy consumption Qhe	2092 kWh	3045 kWh

Model PUZ-WZ100VAA(-BS) + ERPT30X-*M**E	
Model name	PUZ-WZ100VAA(-BS) + ERPT30X-*M**E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	123 %
COP	2.95
Heating up time	2:22 h:min
Standby power input	49 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

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

EN 14511-2 | Heating	Low temperature	Medium temperature
Heat output	5.8 kW	10 kW
El input	1.14 kW	2.02 kW
COP	5.1	2.9

EN 14511-2 | Cooling	+7°C/+12°C	+18°C/+23°C
El input	2.12 kW	1.2 kW
Cooling capacity	7	6.5
EER	3.3	5.4

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	189 %	141 %
Prated	9.5 kW	9.5 kW
SCOP	4.79	3.61
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.4 kW	8.4 kW
COP Tj = -7°C	3.13	2.05
Cdh Tj = -7 °C	0.992	0.995
Pdh Tj = +2°C	5.12 kW	5.12 kW
COP Tj = +2°C	4.62	3.52
Cdh Tj = +2 °C	0.98	0.985
Pdh Tj = +7°C	4.2 kW	3.81 kW
COP Tj = +7°C	6.5	5.03
Cdh Tj = +7 °C	0.966	0.971
Pdh Tj = 12°C	4.15 kW	4.35 kW
COP Tj = 12°C	7.02	6.22
Cdh Tj = +12 °C	0.963	0.969
Pdh Tj = Tbiv	8.4 kW	8.4 kW
COP Tj = Tbiv	3.13	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.4 kW	9.4 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
WTOL	75 °C	75 °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	0.1 kW	0.1 kW
Annual energy consumption Qhe	4096 kWh	5436 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	251 %	169 %
Prated	9.5 kW	9.5 kW
SCOP	6.36	4.31
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.5 kW	9.5 kW
COP Tj = +2°C	3.16	2.15
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	6.11 kW	6.11 kW
COP Tj = +7°C	6.57	3.87
Cdh Tj = +7 °C	0.976	0.986
Pdh Tj = 12°C	4.25 kW	4.18 kW
COP Tj = 12°C	7.08	5.4
Cdh Tj = +12 °C	0.963	0.972
Pdh Tj = Tbiv	9.5 kW	9.5 kW
COP Tj = Tbiv	3.16	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.5 kW	9.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.16	2.15
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	75 °C	75 °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	0 kW	0 kW
Annual energy consumption Qhe	1995 kWh	2947 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	7 kW	6.5 kW
SEER	4.16	6.39
Pdc Tj = 35°C	7 kW	6.5 kW
EER Tj = 35°C	3.3	5.4
Cdc Tj = 35 °C	0.99	0.982
Pdc Tj = 30°C	5.16 kW	4.79 kW
EER Tj = 30°C	3.98	6.15
Cdc Tj = 30 °C	0.983	0.972
Pdc Tj = 25°C	4.06 kW	5.15 kW
EER Tj = 25°C	4.69	7.33
Cdc Tj = 25 °C	0.975	0.969
Pdc Tj = 20°C	3.8 kW	5.56 kW

EER Tj = 20°C	4.87	8.67
Cdc Tj = 20 °C	0.972	0.966
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Annual energy consumption Qce	1010 kWh	611 kWh

Model PUZ-WZ100YAA(-BS) + EHPT30X-*M**E

Model name	PUZ-WZ100YAA(-BS) + EHPT30X-*M**E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency ηDHW	123 %
COP	2.95
Heating up time	2:22 h:min
Standby power input	49 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.8 kW	10 kW
El input	1.14 kW	2.02 kW
COP	5.1	2.9

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	185 %	139 %

Prated	9.5 kW	9.5 kW
SCOP	4.7	3.56
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.4 kW	8.4 kW
COP Tj = -7°C	3.13	2.05
Cdh Tj = -7 °C	0.992	0.995
Pdh Tj = +2°C	5.12 kW	5.12 kW
COP Tj = +2°C	4.62	3.52
Cdh Tj = +2 °C	0.98	0.985
Pdh Tj = +7°C	4.2 kW	3.81 kW
COP Tj = +7°C	6.5	5.03
Cdh Tj = +7 °C	0.966	0.971
Pdh Tj = 12°C	4.15 kW	4.35 kW
COP Tj = 12°C	7.02	6.22
Cdh Tj = +12 °C	0.963	0.969
Pdh Tj = Tbiv	8.4 kW	8.4 kW
COP Tj = Tbiv	3.13	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.4 kW	9.4 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
WTOL	75 °C	75 °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	0.1 kW	0.1 kW
Annual energy consumption Qhe	4177 kWh	5517 kWh

EN 12102-1 | Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate		
	Low temperature	Medium temperature
ηs	240 %	164 %
Prated	9.5 kW	9.5 kW
SCOP	6.07	4.17
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.5 kW	9.5 kW

COP Tj = +2°C	3.16	2.15
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	6.11 kW	6.11 kW
COP Tj = +7°C	6.57	3.87
Cdh Tj = +7 °C	0.976	0.986
Pdh Tj = 12°C	4.25 kW	4.18 kW
COP Tj = 12°C	7.08	5.4
Cdh Tj = +12 °C	0.963	0.972
Pdh Tj = Tbiv	9.5 kW	9.5 kW
COP Tj = Tbiv	3.16	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.5 kW	9.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.16	2.15
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	75 °C	75 °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	0 kW	0 kW
Annual energy consumption Qhe	2092 kWh	3045 kWh

Model PUZ-WZ100YAA(-BS) + ERPT30X-*M**E	
Model name	PUZ-WZ100YAA(-BS) + ERPT30X-*M**E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data	
Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	123 %
COP	2.95
Heating up time	2:22 h:min
Standby power input	49 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

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

EN 14511-2 | Heating	Low temperature	Medium temperature
Heat output	5.8 kW	10 kW
El input	1.14 kW	2.02 kW
COP	5.1	2.9

EN 14511-2 | Cooling	+7°C/+12°C	+18°C/+23°C
El input	2.12 kW	1.2 kW
Cooling capacity	7	6.5
EER	3.3	5.4

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	189 %	141 %
Prated	9.5 kW	9.5 kW
SCOP	4.79	3.61
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.4 kW	8.4 kW
COP Tj = -7°C	3.13	2.05
Cdh Tj = -7 °C	0.992	0.995
Pdh Tj = +2°C	5.12 kW	5.12 kW
COP Tj = +2°C	4.62	3.52
Cdh Tj = +2 °C	0.98	0.985
Pdh Tj = +7°C	4.2 kW	3.81 kW
COP Tj = +7°C	6.5	5.03
Cdh Tj = +7 °C	0.966	0.971
Pdh Tj = 12°C	4.15 kW	4.35 kW
COP Tj = 12°C	7.02	6.22
Cdh Tj = +12 °C	0.963	0.969
Pdh Tj = Tbiv	8.4 kW	8.4 kW
COP Tj = Tbiv	3.13	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.4 kW	9.4 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
WTOL	75 °C	75 °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	0.1 kW	0.1 kW
Annual energy consumption Qhe	4096 kWh	5436 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	251 %	169 %
Prated	9.5 kW	9.5 kW
SCOP	6.36	4.31
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.5 kW	9.5 kW
COP Tj = +2°C	3.16	2.15
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	6.11 kW	6.11 kW
COP Tj = +7°C	6.57	3.87
Cdh Tj = +7 °C	0.976	0.986
Pdh Tj = 12°C	4.25 kW	4.18 kW
COP Tj = 12°C	7.08	5.4
Cdh Tj = +12 °C	0.963	0.972
Pdh Tj = Tbiv	9.5 kW	9.5 kW
COP Tj = Tbiv	3.16	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.5 kW	9.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.16	2.15
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	75 °C	75 °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	0 kW	0 kW
Annual energy consumption Qhe	1995 kWh	2947 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	7 kW	6.5 kW
SEER	4.16	6.39
Pdc Tj = 35°C	7 kW	6.5 kW
EER Tj = 35°C	3.3	5.4
Cdc Tj = 35 °C	0.99	0.982
Pdc Tj = 30°C	5.16 kW	4.79 kW
EER Tj = 30°C	3.98	6.15
Cdc Tj = 30 °C	0.983	0.972
Pdc Tj = 25°C	4.06 kW	5.15 kW
EER Tj = 25°C	4.69	7.33
Cdc Tj = 25 °C	0.975	0.969
Pdc Tj = 20°C	3.8 kW	5.56 kW

EER Tj = 20°C	4.87	8.67
Cdc Tj = 20 °C	0.972	0.966
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Annual energy consumption Qce	1010 kWh	611 kWh

Model PUZ-WZ120VAA(-BS) + EHPT30X-*M**E	
Model name	PUZ-WZ120VAA(-BS) + EHPT30X-*M**E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	123 %
COP	2.95
Heating up time	2:22 h:min
Standby power input	49 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

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

EN 14511-2 | Heating	Low temperature	Medium temperature
Heat output	5.8 kW	12 kW
El input	1.14 kW	4.48 kW
COP	5.1	2.68

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	188 %	140 %

Prated	11 kW	11 kW
SCOP	4.79	3.59
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.73 kW	9.73 kW
COP Tj = -7°C	3	2.09
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	5.92 kW	5.92 kW
COP Tj = +2°C	4.73	3.51
Cdh Tj = +2 °C	0.982	0.987
Pdh Tj = +7°C	4.2 kW	3.81 kW
COP Tj = +7°C	6.59	5.09
Cdh Tj = +7 °C	0.965	0.971
Pdh Tj = 12°C	4.15 kW	4.35 kW
COP Tj = 12°C	7.66	6.3
Cdh Tj = +12 °C	0.959	0.968
Pdh Tj = Tbiv	9.73 kW	9.73 kW
COP Tj = Tbiv	3	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.9 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.996
WTOL	75 °C	75 °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	0.1 kW	0.1 kW
Annual energy consumption Qhe	4748 kWh	6335 kWh

EN 12102-1 | Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate		
	Low temperature	Medium temperature
ηs	224 %	171 %
Prated	11 kW	11 kW
SCOP	5.69	4.35
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11 kW	11 kW

COP Tj = +2°C	2.91	2.05
Cdh Tj = +2 °C	0.994	0.996
Pdh Tj = +7°C	7.07 kW	7.07 kW
COP Tj = +7°C	6.38	3.87
Cdh Tj = +7 °C	0.98	0.988
Pdh Tj = 12°C	4.25 kW	4.18 kW
COP Tj = 12°C	6.25	5.9
Cdh Tj = +12 °C	0.968	0.969
Pdh Tj = Tbiv	11 kW	11 kW
COP Tj = Tbiv	2.91	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11 kW	11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
WTOL	75 °C	75 °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	0 kW	0 kW
Annual energy consumption Qhe	2585 kWh	3378 kWh

Model PUZ-WZ120VAA(-BS) + ERPT30X-*M**E	
Model name	PUZ-WZ120VAA(-BS) + ERPT30X-*M**E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	123 %
COP	2.95
Heating up time	2:22 h:min
Standby power input	49 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

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

EN 14511-2 | Heating	Low temperature	Medium temperature
Heat output	5.8 kW	12 kW
El input	1.14 kW	4.48 kW
COP	5.1	2.68

EN 14511-2 | Cooling	+7°C/+12°C	+18°C/+23°C
El input	2.86 kW	1.88 kW
Cooling capacity	9	9
EER	3.15	4.8

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	192 %	142 %
Prated	11 kW	11 kW
SCOP	4.87	3.63
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.73 kW	9.73 kW
COP Tj = -7°C	3	2.09
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	5.92 kW	5.92 kW
COP Tj = +2°C	4.73	3.51
Cdh Tj = +2 °C	0.982	0.987
Pdh Tj = +7°C	4.2 kW	3.81 kW
COP Tj = +7°C	6.59	5.09
Cdh Tj = +7 °C	0.965	0.971
Pdh Tj = 12°C	4.15 kW	4.35 kW
COP Tj = 12°C	7.66	6.3
Cdh Tj = +12 °C	0.959	0.968
Pdh Tj = Tbiv	9.73 kW	9.73 kW
COP Tj = Tbiv	3	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.9 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.996
WTOL	75 °C	75 °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	0.1 kW	0.1 kW
Annual energy consumption Qhe	4667 kWh	6255 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	233 %	176 %
Prated	11 kW	11 kW
SCOP	5.91	4.48
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11 kW	11 kW
COP Tj = +2°C	2.91	2.05
Cdh Tj = +2 °C	0.994	0.996
Pdh Tj = +7°C	7.07 kW	7.07 kW
COP Tj = +7°C	6.38	3.87
Cdh Tj = +7 °C	0.98	0.988
Pdh Tj = 12°C	4.25 kW	4.18 kW
COP Tj = 12°C	6.25	5.9
Cdh Tj = +12 °C	0.968	0.969
Pdh Tj = Tbiv	11 kW	11 kW
COP Tj = Tbiv	2.91	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11 kW	11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
WTOL	75 °C	75 °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	0 kW	0 kW
Annual energy consumption Qhe	2488 kWh	3281 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9 kW	9 kW
SEER	4.45	6.88
Pdc Tj = 35°C	9 kW	9 kW
EER Tj = 35°C	3.15	4.8
Cdc Tj = 35 °C	0.992	0.988
Pdc Tj = 30°C	6.63 kW	6.63 kW
EER Tj = 30°C	4.18	6.6
Cdc Tj = 30 °C	0.986	0.978
Pdc Tj = 25°C	4.26 kW	5.15 kW
EER Tj = 25°C	5.18	7.87
Cdc Tj = 25 °C	0.973	0.966
Pdc Tj = 20°C	3.8 kW	5.56 kW

EER Tj = 20°C	5	9
Cdc Tj = 20 °C	0.971	0.964
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Annual energy consumption Qce	1214 kWh	784 kWh

Model PUZ-WZ120YAA(-BS) + EHPT30X-*M**E	
Model name	PUZ-WZ120YAA(-BS) + EHPT30X-*M**E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	123 %
COP	2.95
Heating up time	2:22 h:min
Standby power input	49 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	5.8 kW	12 kW
El input	1.14 kW	4.48 kW
COP	5.1	2.68

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	188 %	140 %

Prated	11 kW	11 kW
SCOP	4.79	3.59
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.73 kW	9.73 kW
COP Tj = -7°C	3	2.09
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	5.92 kW	5.92 kW
COP Tj = +2°C	4.73	3.51
Cdh Tj = +2 °C	0.982	0.987
Pdh Tj = +7°C	4.2 kW	3.81 kW
COP Tj = +7°C	6.59	5.09
Cdh Tj = +7 °C	0.965	0.971
Pdh Tj = 12°C	4.15 kW	4.35 kW
COP Tj = 12°C	7.66	6.3
Cdh Tj = +12 °C	0.959	0.968
Pdh Tj = Tbiv	9.73 kW	9.73 kW
COP Tj = Tbiv	3	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.9 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.996
WTOL	75 °C	75 °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	0.1 kW	0.1 kW
Annual energy consumption Qhe	4748 kWh	6335 kWh

EN 12102-1 | Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate		
	Low temperature	Medium temperature
ηs	224 %	171 %
Prated	11 kW	11 kW
SCOP	5.69	4.35
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11 kW	11 kW

COP Tj = +2°C	2.91	2.05
Cdh Tj = +2 °C	0.994	0.996
Pdh Tj = +7°C	7.07 kW	7.07 kW
COP Tj = +7°C	6.38	3.87
Cdh Tj = +7 °C	0.98	0.988
Pdh Tj = 12°C	4.25 kW	4.18 kW
COP Tj = 12°C	6.25	5.9
Cdh Tj = +12 °C	0.968	0.969
Pdh Tj = Tbiv	11 kW	11 kW
COP Tj = Tbiv	2.91	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11 kW	11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
WTOL	75 °C	75 °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	0 kW	0 kW
Annual energy consumption Qhe	2585 kWh	3378 kWh

Model PUZ-WZ120YAA(-BS) + ERPT30X-*M**E	
Model name	PUZ-WZ120YAA(-BS) + ERPT30X-*M**E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data	
Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	123 %
COP	2.95
Heating up time	2:22 h:min
Standby power input	49 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

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

EN 14511-2 | Heating	Low temperature	Medium temperature
Heat output	5.8 kW	12 kW
El input	1.14 kW	4.48 kW
COP	5.1	2.68

EN 14511-2 | Cooling	+7°C/+12°C	+18°C/+23°C
El input	2.86 kW	1.88 kW
Cooling capacity	9	9
EER	3.15	4.8

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	192 %	142 %
Prated	11 kW	11 kW
SCOP	4.87	3.63
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.73 kW	9.73 kW
COP Tj = -7°C	3	2.09
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	5.92 kW	5.92 kW
COP Tj = +2°C	4.73	3.51
Cdh Tj = +2 °C	0.982	0.987
Pdh Tj = +7°C	4.2 kW	3.81 kW
COP Tj = +7°C	6.59	5.09
Cdh Tj = +7 °C	0.965	0.971
Pdh Tj = 12°C	4.15 kW	4.35 kW
COP Tj = 12°C	7.66	6.3
Cdh Tj = +12 °C	0.959	0.968
Pdh Tj = Tbiv	9.73 kW	9.73 kW
COP Tj = Tbiv	3	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.9 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.996
WTOL	75 °C	75 °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	0.1 kW	0.1 kW
Annual energy consumption Qhe	4667 kWh	6255 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	233 %	176 %
Prated	11 kW	11 kW
SCOP	5.91	4.48
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11 kW	11 kW
COP Tj = +2°C	2.91	2.05
Cdh Tj = +2 °C	0.994	0.996
Pdh Tj = +7°C	7.07 kW	7.07 kW
COP Tj = +7°C	6.38	3.87
Cdh Tj = +7 °C	0.98	0.988
Pdh Tj = 12°C	4.25 kW	4.18 kW
COP Tj = 12°C	6.25	5.9
Cdh Tj = +12 °C	0.968	0.969
Pdh Tj = Tbiv	11 kW	11 kW
COP Tj = Tbiv	2.91	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11 kW	11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
WTOL	75 °C	75 °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	0 kW	0 kW
Annual energy consumption Qhe	2488 kWh	3281 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9 kW	9 kW
SEER	4.45	6.88
Pdc Tj = 35°C	9 kW	9 kW
EER Tj = 35°C	3.15	4.8
Cdc Tj = 35 °C	0.992	0.988
Pdc Tj = 30°C	6.63 kW	6.63 kW
EER Tj = 30°C	4.18	6.6
Cdc Tj = 30 °C	0.986	0.978
Pdc Tj = 25°C	4.26 kW	5.15 kW
EER Tj = 25°C	5.18	7.87
Cdc Tj = 25 °C	0.973	0.966
Pdc Tj = 20°C	3.8 kW	5.56 kW

EER Tj = 20°C	5	9
Cdc Tj = 20 °C	0.971	0.964
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Annual energy consumption Qce	1214 kWh	784 kWh

Model PUZ-WZ140VAA-W(-BS) + ERPT30X-*M**E	
Model name	PUZ-WZ140VAA-W(-BS) + ERPT30X-*M**E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	123 %
COP	2.95
Heating up time	2:22 h:min
Standby power input	49 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

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

EN 14511-2 | Heating	Low temperature	Medium temperature
Heat output	5.8 kW	12 kW
El input	1.14 kW	4.48 kW
COP	5.1	2.68

EN 14511-2 | Cooling	+7°C/+12°C	+18°C/+23°C
El input	2.86 kW	1.88 kW
Cooling capacity	9	9
EER	3.15	4.8

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	192 %	142 %
Prated	11 kW	11 kW
SCOP	4.87	3.63
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.73 kW	9.73 kW
COP Tj = -7°C	3	2.09
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	5.92 kW	5.92 kW
COP Tj = +2°C	4.73	3.51
Cdh Tj = +2 °C	0.982	0.987
Pdh Tj = +7°C	4.2 kW	3.81 kW
COP Tj = +7°C	6.59	5.09
Cdh Tj = +7 °C	0.965	0.971
Pdh Tj = 12°C	4.15 kW	4.35 kW
COP Tj = 12°C	7.66	6.3
Cdh Tj = +12 °C	0.959	0.968
Pdh Tj = Tbiv	9.73 kW	9.73 kW
COP Tj = Tbiv	3	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.9 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.996
WTOL	75 °C	75 °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	0.1 kW	0.1 kW
Annual energy consumption Qhe	4667 kWh	6255 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	233 %	176 %
Prated	11 kW	11 kW
SCOP	5.91	4.48
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11 kW	11 kW
COP Tj = +2°C	2.91	2.05
Cdh Tj = +2 °C	0.994	0.996
Pdh Tj = +7°C	7.07 kW	7.07 kW
COP Tj = +7°C	6.38	3.87
Cdh Tj = +7 °C	0.98	0.988
Pdh Tj = 12°C	4.25 kW	4.18 kW
COP Tj = 12°C	6.25	5.9
Cdh Tj = +12 °C	0.968	0.969
Pdh Tj = Tbiv	11 kW	11 kW
COP Tj = Tbiv	2.91	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11 kW	11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
WTOL	75 °C	75 °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	0 kW	0 kW
Annual energy consumption Qhe	2488 kWh	3281 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9 kW	9 kW
SEER	4.45	6.88
Pdc Tj = 35°C	9 kW	9 kW
EER Tj = 35°C	3.15	4.8
Cdc Tj = 35 °C	0.992	0.988
Pdc Tj = 30°C	6.63 kW	6.63 kW
EER Tj = 30°C	4.18	6.6
Cdc Tj = 30 °C	0.986	0.978
Pdc Tj = 25°C	4.26 kW	5.15 kW
EER Tj = 25°C	5.18	7.87
Cdc Tj = 25 °C	0.973	0.966
Pdc Tj = 20°C	3.8 kW	5.56 kW

EER Tj = 20°C	5	9
Cdc Tj = 20 °C	0.971	0.964
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Annual energy consumption Qce	1214 kWh	784 kWh

Model PUZ-WZ140YAA-W(-BS) + ERPT30X-*M**E

Model name	PUZ-WZ140YAA-W(-BS) + ERPT30X-*M**E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency ηDHW	123 %
COP	2.95
Heating up time	2:22 h:min
Standby power input	49 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.8 kW	12 kW
El input	1.14 kW	4.48 kW
COP	5.1	2.68

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.86 kW	1.88 kW
Cooling capacity	9	9
EER	3.15	4.8

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	192 %	142 %
Prated	11 kW	11 kW
SCOP	4.87	3.63
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.73 kW	9.73 kW
COP Tj = -7°C	3	2.09
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	5.92 kW	5.92 kW
COP Tj = +2°C	4.73	3.51
Cdh Tj = +2 °C	0.982	0.987
Pdh Tj = +7°C	4.2 kW	3.81 kW
COP Tj = +7°C	6.59	5.09
Cdh Tj = +7 °C	0.965	0.971
Pdh Tj = 12°C	4.15 kW	4.35 kW
COP Tj = 12°C	7.66	6.3
Cdh Tj = +12 °C	0.959	0.968
Pdh Tj = Tbiv	9.73 kW	9.73 kW
COP Tj = Tbiv	3	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.9 kW	10.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.996
WTOL	75 °C	75 °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	0.1 kW	0.1 kW
Annual energy consumption Qhe	4667 kWh	6255 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	233 %	176 %
Prated	11 kW	11 kW
SCOP	5.91	4.48
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11 kW	11 kW
COP Tj = +2°C	2.91	2.05
Cdh Tj = +2 °C	0.994	0.996
Pdh Tj = +7°C	7.07 kW	7.07 kW
COP Tj = +7°C	6.38	3.87
Cdh Tj = +7 °C	0.98	0.988
Pdh Tj = 12°C	4.25 kW	4.18 kW
COP Tj = 12°C	6.25	5.9
Cdh Tj = +12 °C	0.968	0.969
Pdh Tj = Tbiv	11 kW	11 kW
COP Tj = Tbiv	2.91	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11 kW	11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
WTOL	75 °C	75 °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	0 kW	0 kW
Annual energy consumption Qhe	2488 kWh	3281 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9 kW	9 kW
SEER	4.45	6.88
Pdc Tj = 35°C	9 kW	9 kW
EER Tj = 35°C	3.15	4.8
Cdc Tj = 35 °C	0.992	0.988
Pdc Tj = 30°C	6.63 kW	6.63 kW
EER Tj = 30°C	4.18	6.6
Cdc Tj = 30 °C	0.986	0.978
Pdc Tj = 25°C	4.26 kW	5.15 kW
EER Tj = 25°C	5.18	7.87
Cdc Tj = 25 °C	0.973	0.966
Pdc Tj = 20°C	3.8 kW	5.56 kW

EER Tj = 20°C	5	9
Cdc Tj = 20 °C	0.971	0.964
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Annual energy consumption Qce	1214 kWh	784 kWh