

**Subtype Ecodan Power Inverter 8.5/9/11.5-300E 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 8.5/9/11.5-300E Packaged R290
Registration number	037-160-25
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.6 kg
Certification Date	25.02.2025
Testing basis	HP Keymark certification scheme rules rev. no.13
Testing laboratory	SZU Brno, CZ

**Model PUZ-WZ85VAA(-BS) + EHPT30X-\*M\*\*E**

Model name	PUZ-WZ85VAA(-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 $\eta_{DHW}$	114 %
COP	2.75
Heating up time	3:36 h:min
Standby power input	51 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	5.31 kW	8.5 kW
El input	1.11 kW	2.91 kW
COP	4.8	2.92

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_S$	179 %	141 %

Prated	8 kW	8 kW
SCOP	4.54	3.59
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	2.96	2.17
Cdh Tj = -7 °C	0.991	0.993
Pdh Tj = +2°C	4.31 kW	4.31 kW
COP Tj = +2°C	4.67	3.51
Cdh Tj = +2 °C	0.976	0.982
Pdh Tj = +7°C	3.5 kW	3.5 kW
COP Tj = +7°C	5.84	5.12
Cdh Tj = +7 °C	0.963	0.968
Pdh Tj = 12°C	3.5 kW	3.5 kW
COP Tj = 12°C	7.1	6.51
Cdh Tj = +12 °C	0.955	0.959
Pdh Tj = Tbiv	7.08 kW	7.08 kW
COP Tj = Tbiv	2.96	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.5 kW	7.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.53	1.85
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	0.5 kW	0.5 kW
Annual energy consumption Qhe	3640 kWh	4604 kWh

**EN 12102-1 | Warmer Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

**EN 14825 | Warmer Climate**

	Low temperature	Medium temperature
ηs	222 %	171 %
Prated	8 kW	8 kW
SCOP	5.62	4.36
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8 kW	8 kW

COP Tj = +2°C	3.3	2.24
Cdh Tj = + 2 °C	0.991	0.994
Pdh Tj = +7°C	5.14 kW	5.14 kW
COP Tj = +7°C	5.98	3.99
Cdh Tj = + 7 °C	0.974	0.983
Pdh Tj = 12°C	3.5 kW	3.5 kW
COP Tj = 12°C	6.64	5.87
Cdh Tj = +12 °C	0.958	0.963
Pdh Tj = Tbiv	8 kW	8 kW
COP Tj = Tbiv	3.3	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
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	1902 kWh	2453 kWh

**Model PUZ-WZ85VAA(-BS) + ERPT30X-\*M\*\*E**

Model name	PUZ-WZ85VAA(-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 $\eta_{DHW}$	114 %
COP	2.75
Heating up time	3:36 h:min
Standby power input	51 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	5.31 kW	8.5 kW
El input	1.11 kW	2.91 kW
COP	4.8	2.92

**EN 14511-2 | Cooling**

El input	+7°C/+12°C 1.52 kW	+18°C/+23°C 1.08 kW
Cooling capacity	5	5
EER	3.3	4.61

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_S$	183 %	143 %
Prated	8 kW	8 kW
SCOP	4.64	3.65
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	2.96	2.17
Cdh Tj = -7 °C	0.991	0.993
Pdh Tj = +2°C	4.31 kW	4.31 kW
COP Tj = +2°C	4.67	3.51
Cdh Tj = +2 °C	0.976	0.982
Pdh Tj = +7°C	3.5 kW	3.5 kW
COP Tj = +7°C	5.84	5.12
Cdh Tj = +7 °C	0.963	0.968
Pdh Tj = 12°C	3.5 kW	3.5 kW
COP Tj = 12°C	7.1	6.51
Cdh Tj = +12 °C	0.955	0.959
Pdh Tj = Tbiv	7.08 kW	7.08 kW
COP Tj = Tbiv	2.96	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.5 kW	7.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.53	1.85
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	0.5 kW	0.5 kW
Annual energy consumption Qhe	3559 kWh	4524 kWh

**EN 12102-1 | Warmer Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

**EN 14825 | Warmer Climate**

	Low temperature	Medium temperature
$\eta_s$	234 %	178 %
Prated	8 kW	8 kW
SCOP	5.92	4.54
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8 kW	8 kW
COP Tj = +2°C	3.3	2.24
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	5.14 kW	5.14 kW
COP Tj = +7°C	5.98	3.99
Cdh Tj = +7 °C	0.974	0.983
Pdh Tj = 12°C	3.5 kW	3.5 kW
COP Tj = 12°C	6.64	5.87
Cdh Tj = +12 °C	0.958	0.963
Pdh Tj = Tbiv	8 kW	8 kW
COP Tj = Tbiv	3.3	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
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	1805 kWh	2356 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
Pdesignc	5 kW	5 kW
SEER	4.12	5.64
Pdc Tj = 35°C	5 kW	5 kW
EER Tj = 35°C	3.3	4.61
Cdc Tj = 35 °C	0.985	0.98
Pdc Tj = 30°C	3.68 kW	3.68 kW
EER Tj = 30°C	4.38	5.53
Cdc Tj = 30 °C	0.974	0.967
Pdc Tj = 25°C	3.13 kW	3.96 kW
EER Tj = 25°C	4.55	6.81
Cdc Tj = 25 °C	0.968	0.962
Pdc Tj = 20°C	2.93 kW	4.2 kW

EER Tj = 20°C	4.92	7.46
Cdc Tj = 20 °C	0.963	0.961
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Annual energy consumption Qce	729 kWh	532 kWh

**Model PUZ-WZ85YAA(-BS) + EHPT30X-\*M\*\*E**

Model name	PUZ-WZ85YAA(-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 $\eta_{DHW}$	114 %
COP	2.75
Heating up time	3:36 h:min
Standby power input	51 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	5.31 kW	8.5 kW
El input	1.11 kW	2.91 kW
COP	4.8	2.92

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_S$	179 %	141 %

Prated	8 kW	8 kW
SCOP	4.54	3.59
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	2.96	2.17
Cdh Tj = -7 °C	0.991	0.993
Pdh Tj = +2°C	4.31 kW	4.31 kW
COP Tj = +2°C	4.67	3.51
Cdh Tj = +2 °C	0.976	0.982
Pdh Tj = +7°C	3.5 kW	3.5 kW
COP Tj = +7°C	5.84	5.12
Cdh Tj = +7 °C	0.963	0.968
Pdh Tj = 12°C	3.5 kW	3.5 kW
COP Tj = 12°C	7.1	6.51
Cdh Tj = +12 °C	0.955	0.959
Pdh Tj = Tbiv	7.08 kW	7.08 kW
COP Tj = Tbiv	2.96	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.5 kW	7.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.53	1.85
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	0.5 kW	0.5 kW
Annual energy consumption Qhe	3640 kWh	4604 kWh

**EN 12102-1 | Warmer Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

**EN 14825 | Warmer Climate**

	Low temperature	Medium temperature
ηs	222 %	171 %
Prated	8 kW	8 kW
SCOP	5.62	4.36
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8 kW	8 kW

COP Tj = +2°C	3.3	2.24
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	5.14 kW	5.14 kW
COP Tj = +7°C	5.98	3.99
Cdh Tj = +7 °C	0.974	0.983
Pdh Tj = 12°C	3.5 kW	3.5 kW
COP Tj = 12°C	6.64	5.87
Cdh Tj = +12 °C	0.958	0.963
Pdh Tj = Tbiv	8 kW	8 kW
COP Tj = Tbiv	3.3	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
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	1902 kWh	2453 kWh

**Model PUZ-WZ85YAA(-BS) + ERPT30X-\*M\*\*E**

Model name	PUZ-WZ85YAA(-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 $\eta_{DHW}$	114 %
COP	2.75
Heating up time	3:36 h:min
Standby power input	51 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	5.31 kW	8.5 kW
El input	1.11 kW	2.91 kW
COP	4.8	2.92

**EN 14511-2 | Cooling**

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	1.52 kW	1.08 kW
EER	5	5
	3.3	4.61

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	183 %	143 %
Prated	8 kW	8 kW
SCOP	4.64	3.65
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	2.96	2.17
Cdh Tj = -7 °C	0.991	0.993
Pdh Tj = +2°C	4.31 kW	4.31 kW
COP Tj = +2°C	4.67	3.51
Cdh Tj = +2 °C	0.976	0.982
Pdh Tj = +7°C	3.5 kW	3.5 kW
COP Tj = +7°C	5.84	5.12
Cdh Tj = +7 °C	0.963	0.968
Pdh Tj = 12°C	3.5 kW	3.5 kW
COP Tj = 12°C	7.1	6.51
Cdh Tj = +12 °C	0.955	0.959
Pdh Tj = Tbiv	7.08 kW	7.08 kW
COP Tj = Tbiv	2.96	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.5 kW	7.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.53	1.85
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	0.5 kW	0.5 kW
Annual energy consumption Qhe	3559 kWh	4524 kWh

**EN 12102-1 | Warmer Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

**EN 14825 | Warmer Climate**

	Low temperature	Medium temperature
$\eta_s$	234 %	178 %
Prated	8 kW	8 kW
SCOP	5.92	4.54
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8 kW	8 kW
COP Tj = +2°C	3.3	2.24
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	5.14 kW	5.14 kW
COP Tj = +7°C	5.98	3.99
Cdh Tj = +7 °C	0.974	0.983
Pdh Tj = 12°C	3.5 kW	3.5 kW
COP Tj = 12°C	6.64	5.87
Cdh Tj = +12 °C	0.958	0.963
Pdh Tj = Tbiv	8 kW	8 kW
COP Tj = Tbiv	3.3	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
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	1805 kWh	2356 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
Pdesignc	5 kW	5 kW
SEER	4.12	5.64
Pdc Tj = 35°C	5 kW	5 kW
EER Tj = 35°C	3.3	4.61
Cdc Tj = 35 °C	0.985	0.98
Pdc Tj = 30°C	3.68 kW	3.68 kW
EER Tj = 30°C	4.38	5.53
Cdc Tj = 30 °C	0.974	0.967
Pdc Tj = 25°C	3.13 kW	3.96 kW
EER Tj = 25°C	4.55	6.81
Cdc Tj = 25 °C	0.968	0.962
Pdc Tj = 20°C	2.93 kW	4.2 kW

EER Tj = 20°C	4.92	7.46
Cdc Tj = 20 °C	0.963	0.961
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Annual energy consumption Qce	729 kWh	532 kWh

**Model PUZ-WZ90VAA-W(-BS) + ERPT30X-\*M\*\*E**

Model name	PUZ-WZ90VAA-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 $\eta_{DHW}$	114 %
COP	2.75
Heating up time	3:36 h:min
Standby power input	51 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	8.5 kW	8.5 kW
El input	1.97 kW	2.91 kW
COP	4.32	2.92

**EN 14511-2 | Cooling**

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	1.52 kW	1.08 kW
EER	5	5
	3.3	4.61

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	183 %	143 %
Prated	8 kW	8 kW
SCOP	4.64	3.65
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	2.96	2.17
Cdh Tj = -7 °C	0.991	0.993
Pdh Tj = +2°C	4.31 kW	4.31 kW
COP Tj = +2°C	4.67	3.51
Cdh Tj = +2 °C	0.976	0.982
Pdh Tj = +7°C	3.5 kW	3.5 kW
COP Tj = +7°C	5.84	5.12
Cdh Tj = +7 °C	0.963	0.968
Pdh Tj = 12°C	3.5 kW	3.5 kW
COP Tj = 12°C	7.1	6.51
Cdh Tj = +12 °C	0.955	0.959
Pdh Tj = Tbiv	7.08 kW	7.08 kW
COP Tj = Tbiv	2.96	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.5 kW	7.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.53	1.85
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	0.5 kW	0.5 kW
Annual energy consumption Qhe	3559 kWh	4524 kWh

**EN 12102-1 | Warmer Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

**EN 14825 | Warmer Climate**

	Low temperature	Medium temperature
$\eta_s$	234 %	178 %
Prated	8 kW	8 kW
SCOP	5.92	4.54
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8 kW	8 kW
COP Tj = +2°C	3.3	2.24
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	5.14 kW	5.14 kW
COP Tj = +7°C	5.98	3.99
Cdh Tj = +7 °C	0.974	0.983
Pdh Tj = 12°C	3.5 kW	3.5 kW
COP Tj = 12°C	6.64	5.87
Cdh Tj = +12 °C	0.958	0.963
Pdh Tj = Tbiv	8 kW	8 kW
COP Tj = Tbiv	3.3	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
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	1805 kWh	2356 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
Pdesignc	5 kW	5 kW
SEER	4.12	5.64
Pdc Tj = 35°C	5 kW	5 kW
EER Tj = 35°C	3.3	4.61
Cdc Tj = 35 °C	0.985	0.98
Pdc Tj = 30°C	3.68 kW	3.68 kW
EER Tj = 30°C	4.38	5.53
Cdc Tj = 30 °C	0.974	0.967
Pdc Tj = 25°C	3.13 kW	3.96 kW
EER Tj = 25°C	4.55	6.81
Cdc Tj = 25 °C	0.968	0.962
Pdc Tj = 20°C	2.93 kW	4.2 kW

EER Tj = 20°C	4.92	7.46
Cdc Tj = 20 °C	0.963	0.961
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Annual energy consumption Qce	729 kWh	532 kWh

**Model PUZ-WZ90YAA-W(-BS) + ERPT30X-\*M\*\*E**

Model name	PUZ-WZ90YAA-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 $\eta_{DHW}$	114 %
COP	2.75
Heating up time	3:36 h:min
Standby power input	51 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	8.5 kW	8.5 kW
El input	1.97 kW	2.91 kW
COP	4.32	2.92

**EN 14511-2 | Cooling**

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	1.52 kW	1.08 kW
EER	5	5
	3.3	4.61

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	183 %	143 %
Prated	8 kW	8 kW
SCOP	4.64	3.65
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	2.96	2.17
Cdh Tj = -7 °C	0.991	0.993
Pdh Tj = +2°C	4.31 kW	4.31 kW
COP Tj = +2°C	4.67	3.51
Cdh Tj = +2 °C	0.976	0.982
Pdh Tj = +7°C	3.5 kW	3.5 kW
COP Tj = +7°C	5.84	5.12
Cdh Tj = +7 °C	0.963	0.968
Pdh Tj = 12°C	3.5 kW	3.5 kW
COP Tj = 12°C	7.1	6.51
Cdh Tj = +12 °C	0.955	0.959
Pdh Tj = Tbiv	7.08 kW	7.08 kW
COP Tj = Tbiv	2.96	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.5 kW	7.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.53	1.85
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	0.5 kW	0.5 kW
Annual energy consumption Qhe	3559 kWh	4524 kWh

**EN 12102-1 | Warmer Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

**EN 14825 | Warmer Climate**

	Low temperature	Medium temperature
$\eta_s$	234 %	178 %
Prated	8 kW	8 kW
SCOP	5.92	4.54
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8 kW	8 kW
COP Tj = +2°C	3.3	2.24
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	5.14 kW	5.14 kW
COP Tj = +7°C	5.98	3.99
Cdh Tj = +7 °C	0.974	0.983
Pdh Tj = 12°C	3.5 kW	3.5 kW
COP Tj = 12°C	6.64	5.87
Cdh Tj = +12 °C	0.958	0.963
Pdh Tj = Tbiv	8 kW	8 kW
COP Tj = Tbiv	3.3	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
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	1805 kWh	2356 kWh

### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	5 kW	5 kW
SEER	4.12	5.64
Pdc Tj = 35°C	5 kW	5 kW
EER Tj = 35°C	3.3	4.61
Cdc Tj = 35 °C	0.985	0.98
Pdc Tj = 30°C	3.68 kW	3.68 kW
EER Tj = 30°C	4.38	5.53
Cdc Tj = 30 °C	0.974	0.967
Pdc Tj = 25°C	3.13 kW	3.96 kW
EER Tj = 25°C	4.55	6.81
Cdc Tj = 25 °C	0.968	0.962
Pdc Tj = 20°C	2.93 kW	4.2 kW

EER Tj = 20°C	4.92	7.46
Cdc Tj = 20 °C	0.963	0.961
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Annual energy consumption Qce	729 kWh	532 kWh

**Model PUZ-WZ115VAA-W(-BS) + ERPT30X-\*M\*\*E**

Model name	PUZ-WZ115VAA-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 $\eta_{DHW}$	114 %
COP	2.75
Heating up time	3:36 h:min
Standby power input	51 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	9.5 kW	9.5 kW
El input	2.29 kW	3.37 kW
COP	4.15	2.82

**EN 14511-2 | Cooling**

El input	+7°C/+12°C 2 kW	+18°C/+23°C 1.63 kW
Cooling capacity	6	6.5
EER	3	4

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_S$	181 %	142 %
Prated	9.5 kW	9.5 kW
SCOP	4.59	3.63
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.4 kW	8.4 kW
COP Tj = -7°C	2.91	1.99
Cdh Tj = -7 °C	0.992	0.995
Pdh Tj = +2°C	5.12 kW	5.12 kW
COP Tj = +2°C	4.6	3.58
Cdh Tj = +2 °C	0.98	0.985
Pdh Tj = +7°C	3.5 kW	3.5 kW
COP Tj = +7°C	5.84	5.12
Cdh Tj = +7 °C	0.963	0.968
Pdh Tj = 12°C	3.5 kW	3.5 kW
COP Tj = 12°C	7.1	6.5
Cdh Tj = +12 °C	0.955	0.959
Pdh Tj = Tbiv	8.4 kW	8.4 kW
COP Tj = Tbiv	2.91	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.6 kW	7.3 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.53	1.74
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	1.9 kW	2.2 kW
Annual energy consumption Qhe	4276 kWh	5410 kWh

**EN 12102-1 | Warmer Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

**EN 14825 | Warmer Climate**

	Low temperature	Medium temperature
$\eta_s$	219 %	177 %
Prated	9.5 kW	9.5 kW
SCOP	5.56	4.51
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.5 kW	9.5 kW
COP Tj = +2°C	3.08	2.16
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	6.11 kW	6.11 kW
COP Tj = +7°C	5.09	3.91
Cdh Tj = +7 °C	0.982	0.986
Pdh Tj = 12°C	3.5 kW	3.5 kW
COP Tj = 12°C	6.73	5.87
Cdh Tj = +12 °C	0.958	0.963
Pdh Tj = Tbiv	9.5 kW	9.5 kW
COP Tj = Tbiv	3.08	2.16
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	3.08	2.16
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	2283 kWh	2817 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6 kW	6.5 kW
SEER	4.12	5.62
Pdc Tj = 35°C	6 kW	6.5 kW
EER Tj = 35°C	3	4
Cdc Tj = 35 °C	0.989	0.986
Pdc Tj = 30°C	4.42 kW	4.79 kW
EER Tj = 30°C	3.85	4.8
Cdc Tj = 30 °C	0.981	0.978
Pdc Tj = 25°C	3.13 kW	3.96 kW
EER Tj = 25°C	4.82	7.01
Cdc Tj = 25 °C	0.966	0.961
Pdc Tj = 20°C	2.93 kW	4.28 kW

EER Tj = 20°C	5	7.58
Cdc Tj = 20 °C	0.962	0.961
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Annual energy consumption Qce	873 kWh	694 kWh

**Model PUZ-WZ115YAA-W(-BS) + ERPT30X-\*M\*\*E**

Model name	PUZ-WZ115YAA-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 $\eta_{DHW}$	114 %
COP	2.75
Heating up time	3:36 h:min
Standby power input	51 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	9.5 kW	9.5 kW
El input	2.29 kW	3.37 kW
COP	4.15	2.82

**EN 14511-2 | Cooling**

El input	+7°C/+12°C 2 kW	+18°C/+23°C 1.63 kW
Cooling capacity	6	6.5
EER	3	4

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_S$	181 %	142 %
P <sub>rated</sub>	9.5 kW	9.5 kW
SCOP	4.59	3.63
T <sub>biv</sub>	-7 °C	-7 °C
T <sub>OL</sub>	-10 °C	-10 °C
P <sub>dh T<sub>j</sub></sub> = -7°C	8.4 kW	8.4 kW
COP T <sub>j</sub> = -7°C	2.91	1.99
C <sub>dh T<sub>j</sub></sub> = -7 °C	0.992	0.995
P <sub>dh T<sub>j</sub></sub> = +2°C	5.12 kW	5.12 kW
COP T <sub>j</sub> = +2°C	4.6	3.58
C <sub>dh T<sub>j</sub></sub> = +2 °C	0.98	0.985
P <sub>dh T<sub>j</sub></sub> = +7°C	3.5 kW	3.5 kW
COP T <sub>j</sub> = +7°C	5.84	5.12
C <sub>dh T<sub>j</sub></sub> = +7 °C	0.963	0.968
P <sub>dh T<sub>j</sub></sub> = 12°C	3.5 kW	3.5 kW
COP T <sub>j</sub> = 12°C	7.1	6.5
C <sub>dh T<sub>j</sub></sub> = +12 °C	0.955	0.959
P <sub>dh T<sub>j</sub></sub> = T <sub>biv</sub>	8.4 kW	8.4 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.91	1.99
P <sub>dh T<sub>j</sub></sub> = T <sub>OL</sub> or P <sub>dh T<sub>j</sub></sub> = T <sub>designh</sub> if T <sub>OL</sub> < T <sub>designh</sub>	7.6 kW	7.3 kW
COP T <sub>j</sub> = T <sub>OL</sub> or COP T <sub>j</sub> = T <sub>designh</sub> if T <sub>OL</sub> < T <sub>designh</sub>	2.53	1.74
C <sub>dh T<sub>j</sub></sub> = T <sub>OL</sub> or P <sub>dh T<sub>j</sub></sub> = T <sub>designh</sub> if T <sub>OL</sub> < T <sub>designh</sub>	0.993	0.995
WT <sub>OL</sub>	75 °C	75 °C
P <sub>off</sub>	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	1.9 kW	2.2 kW
Annual energy consumption Q <sub>he</sub>	4276 kWh	5410 kWh

**EN 12102-1 | Warmer Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

**EN 14825 | Warmer Climate**

	Low temperature	Medium temperature
$\eta_s$	219 %	177 %
Prated	9.5 kW	9.5 kW
SCOP	5.56	4.51
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.5 kW	9.5 kW
COP Tj = +2°C	3.08	2.16
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	6.11 kW	6.11 kW
COP Tj = +7°C	5.09	3.91
Cdh Tj = +7 °C	0.982	0.986
Pdh Tj = 12°C	3.5 kW	3.5 kW
COP Tj = 12°C	6.73	5.87
Cdh Tj = +12 °C	0.958	0.963
Pdh Tj = Tbiv	9.5 kW	9.5 kW
COP Tj = Tbiv	3.08	2.16
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	3.08	2.16
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	2283 kWh	2817 kWh

### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6 kW	6.5 kW
SEER	4.12	5.62
Pdc Tj = 35°C	6 kW	6.5 kW
EER Tj = 35°C	3	4
Cdc Tj = 35 °C	0.989	0.986
Pdc Tj = 30°C	4.42 kW	4.79 kW
EER Tj = 30°C	3.85	4.8
Cdc Tj = 30 °C	0.981	0.978
Pdc Tj = 25°C	3.13 kW	3.96 kW
EER Tj = 25°C	4.82	7.01
Cdc Tj = 25 °C	0.966	0.961
Pdc Tj = 20°C	2.93 kW	4.28 kW

EER Tj = 20°C	5	7.58
Cdc Tj = 20 °C	0.962	0.961
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Annual energy consumption Qce	873 kWh	694 kWh