

## Subtype Ecodan Power Inverter (TR) 6/8/10 + 200D AA

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 (TR) 6/8/10 + 200D AA
Registration number	037-0115-23
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.8 kg
Certification Date	26.04.2023
Testing basis	HP Keymark scheme rules rev. no. 9

## Model PUZ-SWM60VAA + EHST20D-\*M\*D

Model name	PUZ-SWM60VAA + EHST20D-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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	L
Efficiency $\eta_{DHW}$	134 %
COP	3.2
Heating up time	2:09 h:min
Standby power input	43 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	274 l

## Model PUZ-SWM80VAA + EHST20D-\*M\*D

Model name	PUZ-SWM80VAA + EHST20D-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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	L
Efficiency $\eta_{DHW}$	134 %
COP	3.2
Heating up time	2:09 h:min
Standby power input	43 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	274 l

## Model PUZ-SWM80YAA + EHST20D-\*M\*D

Model name	PUZ-SWM80YAA + EHST20D-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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	L
Efficiency $\eta_{DHW}$	134 %
COP	3.2
Heating up time	2:09 h:min
Standby power input	43 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	274 l

## Model PUZ-SWM100VAA + EHST20D-\*M\*D

Model name	PUZ-SWM100VAA + EHST20D-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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	L
Efficiency $\eta_{DHW}$	134 %
COP	3.2
Heating up time	2:09 h:min
Standby power input	43 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	274 l

## Model PUZ-SWM100YAA + EHST20D-\*M\*D

Model name	PUZ-SWM100YAA + EHST20D-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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	L
Efficiency $\eta_{DHW}$	134 %
COP	3.2
Heating up time	2:09 h:min
Standby power input	43 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	274 l

## Model PUZ-SWM60VAA + EHSD-\*M\*D

Model name	PUZ-SWM60VAA + EHSD-*M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	181 %	126 %
Prated	6 kW	6 kW
SCOP	4.59	3.23
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.37 kW	5.31 kW
COP Tj = -7°C	3.38	2.27
Cdh Tj = -7 °C	0.991	0.994
Pdh Tj = +2°C	4.79 kW	4.4 kW
COP Tj = +2°C	4.75	3.19
Cdh Tj = +2 °C	0.985	0.989
Pdh Tj = +7°C	4.9 kW	4.1 kW
COP Tj = +7°C	5.61	3.99
Cdh Tj = +7 °C	0.983	0.985
Pdh Tj = 12°C	3 kW	2.7 kW
COP Tj = 12°C	6.19	5.58
Cdh Tj = +12 °C	0.969	0.969
Pdh Tj = Tbiv	6 kW	6 kW

COP Tj = Tbiv	2.74	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
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	0 kW	0 kW
Annual energy consumption Qhe	2701 kWh	3834 kWh



## Model PUZ-SWM80VAA + EHSD-\*M\*D

Model name	PUZ-SWM80VAA + EHSD-*M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	181 %	129 %
Prated	8 kW	8 kW
SCOP	4.59	3.3
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	3.2	2.27
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	4.4 kW	4.4 kW
COP Tj = +2°C	4.75	3.19
Cdh Tj = +2 °C	0.984	0.989
Pdh Tj = +7°C	5 kW	4.4 kW
COP Tj = +7°C	5.61	4.18
Cdh Tj = +7 °C	0.983	0.986
Pdh Tj = 12°C	3 kW	2.8 kW
COP Tj = 12°C	6.19	5.79
Cdh Tj = +12 °C	0.969	0.969
Pdh Tj = Tbiv	7.08 kW	7.08 kW

COP $T_j = T_{biv}$	3.2	2.27
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	7.5 kW	7.4 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.63	1.83
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.995	0.996
WTOL	60 °C	60 °C
P <sub>off</sub>	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	0.5 kW	0.6 kW
Annual energy consumption Q <sub>he</sub>	3599 kWh	5016 kWh

## Model PUZ-SWM80YAA + EHSD-\*M\*D

Model name	PUZ-SWM80YAA + EHSD-*M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	179 %	128 %
Prated	8 kW	8 kW
SCOP	4.55	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	3.2	2.27
Cdh Tj = -7 °C	0.99	0.993
Pdh Tj = +2°C	4.4 kW	4.4 kW
COP Tj = +2°C	4.75	3.19
Cdh Tj = +2 °C	0.976	0.984
Pdh Tj = +7°C	5 kW	4.4 kW
COP Tj = +7°C	5.61	4.18
Cdh Tj = +7 °C	0.975	0.979
Pdh Tj = 12°C	3 kW	2.8 kW
COP Tj = 12°C	6.19	5.79
Cdh Tj = +12 °C	0.955	0.955
Pdh Tj = Tbiv	7.08 kW	7.08 kW

COP $T_j = T_{biv}$	3.2	2.27
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	7.5 kW	7.4 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.63	1.83
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.992	0.995
WTOL	60 °C	60 °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	0.5 kW	0.6 kW
Annual energy consumption Q <sub>he</sub>	3636 kWh	5053 kWh

## Model PUZ-SWM100VAA + EHSD-\*M\*D

Model name	PUZ-SWM100VAA + EHSD-*M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	178 %	132 %
Prated	10 kW	10 kW
SCOP	4.53	3.38
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.8 kW	8.8 kW
COP Tj = -7°C	3.05	2.15
Cdh Tj = -7 °C	0.995	0.996
Pdh Tj = +2°C	5.4 kW	5.4 kW
COP Tj = +2°C	4.58	3.33
Cdh Tj = +2 °C	0.987	0.991
Pdh Tj = +7°C	5.2 kW	4.8 kW
COP Tj = +7°C	5.7	4.39
Cdh Tj = +7 °C	0.984	0.986
Pdh Tj = 12°C	3.2 kW	2.9 kW
COP Tj = 12°C	6.61	5.99
Cdh Tj = +12 °C	0.969	0.969
Pdh Tj = Tbiv	8.8 kW	8.8 kW

COP $T_j = T_{biv}$	3.05	2.15
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	9 kW	8.5 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.4	1.7
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.996	0.997
WTOL	60 °C	60 °C
P <sub>off</sub>	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 kW	1.5 kW
Annual energy consumption Q <sub>he</sub>	4564 kWh	6106 kWh

## Model PUZ-SWM100YAA + EHSD-\*M\*D

Model name	PUZ-SWM100YAA + EHSD-*M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	177 %	132 %
Prated	10 kW	10 kW
SCOP	4.49	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.8 kW	8.8 kW
COP Tj = -7°C	3.05	2.15
Cdh Tj = -7 °C	0.992	0.995
Pdh Tj = +2°C	5.4 kW	5.4 kW
COP Tj = +2°C	4.58	3.33
Cdh Tj = +2 °C	0.981	0.986
Pdh Tj = +7°C	5.2 kW	4.8 kW
COP Tj = +7°C	5.7	4.39
Cdh Tj = +7 °C	0.976	0.98
Pdh Tj = 12°C	3.2 kW	2.9 kW
COP Tj = 12°C	6.61	5.99
Cdh Tj = +12 °C	0.955	0.955
Pdh Tj = Tbiv	8.8 kW	8.8 kW

COP Tj = Tbiv	3.05	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.4	1.7
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
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 kW	1.5 kW
Annual energy consumption Qhe	4600 kWh	6141 kWh



## Model PUZ-SWM60VAA + ERST20D-\*M\*D

Model name	PUZ-SWM60VAA + ERST20D-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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	L
Efficiency $\eta_{DHW}$	134 %
COP	3.2
Heating up time	2:09 h:min
Standby power input	43 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	274 l

## Model PUZ-SWM80VAA + ERST20D-\*M\*D

Model name	PUZ-SWM80VAA + ERST20D-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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	L
Efficiency $\eta_{DHW}$	134 %
COP	3.2
Heating up time	2:09 h:min
Standby power input	43 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	274 l

## Model PUZ-SWM80YAA + ERST20D-\*M\*D

Model name	PUZ-SWM80YAA + ERST20D-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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	L
Efficiency $\eta_{DHW}$	134 %
COP	3.2
Heating up time	2:09 h:min
Standby power input	43 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	274 l

## Model PUZ-SWM100VAA + ERST20D-\*M\*D

Model name	PUZ-SWM100VAA + ERST20D-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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	L
Efficiency $\eta_{DHW}$	134 %
COP	3.2
Heating up time	2:09 h:min
Standby power input	43 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	274 l

## Model PUZ-SWM100YAA + ERST20D-\*M\*D

Model name	PUZ-SWM100YAA + ERST20D-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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	L
Efficiency $\eta_{DHW}$	134 %
COP	3.2
Heating up time	2:09 h:min
Standby power input	43 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	274 l

## Model PUZ-SWM60VAA + ERSD-\*M\*D

Model name	PUZ-SWM60VAA + ERSD-*M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	184 %	128 %
Prated	6 kW	6 kW
SCOP	4.68	3.28
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.37 kW	5.31 kW
COP Tj = -7°C	3.38	2.27
Cdh Tj = -7 °C	0.991	0.994
Pdh Tj = +2°C	4.79 kW	4.4 kW
COP Tj = +2°C	4.75	3.19
Cdh Tj = +2 °C	0.985	0.989
Pdh Tj = +7°C	4.9 kW	4.1 kW
COP Tj = +7°C	5.61	3.99
Cdh Tj = +7 °C	0.983	0.985
Pdh Tj = 12°C	3 kW	2.7 kW
COP Tj = 12°C	6.19	5.58
Cdh Tj = +12 °C	0.969	0.969

Pdh Tj = Tbiv	6 kW	6 kW
COP Tj = Tbiv	2.74	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
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	0 kW	0 kW
Annual energy consumption Qhe	2646 kWh	3779 kWh

## Model PUZ-SWM80VAA + ERSD-\*M\*D

Model name	PUZ-SWM80VAA + ERSD-*M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	184 %	130 %
Prated	8 kW	8 kW
SCOP	4.66	3.33
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	3.2	2.27
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	4.4 kW	4.4 kW
COP Tj = +2°C	4.75	3.19
Cdh Tj = +2 °C	0.984	0.989
Pdh Tj = +7°C	5 kW	4.4 kW
COP Tj = +7°C	5.61	4.18
Cdh Tj = +7 °C	0.983	0.986
Pdh Tj = 12°C	3 kW	2.8 kW
COP Tj = 12°C	6.19	5.79
Cdh Tj = +12 °C	0.969	0.969



Pdh Tj = Tbiv	7.08 kW	7.08 kW
COP Tj = Tbiv	3.2	2.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.5 kW	7.4 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.996
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	0.5 kW	0.6 kW
Annual energy consumption Qhe	3543 kWh	4961 kWh

## Model PUZ-SWM80YAA + ERSD-\*M\*D

Model name	PUZ-SWM80YAA + ERSD-*M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	183 %	130 %
Prated	8 kW	8 kW
SCOP	4.65	3.32
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	3.2	2.27
Cdh Tj = -7 °C	0.99	0.993
Pdh Tj = +2°C	4.4 kW	4.4 kW
COP Tj = +2°C	4.75	3.19
Cdh Tj = +2 °C	0.976	0.984
Pdh Tj = +7°C	5 kW	4.4 kW
COP Tj = +7°C	5.61	4.18
Cdh Tj = +7 °C	0.975	0.979
Pdh Tj = 12°C	3 kW	2.8 kW
COP Tj = 12°C	6.19	5.79
Cdh Tj = +12 °C	0.955	0.955

Pdh Tj = Tbiv	7.08 kW	7.08 kW
COP Tj = Tbiv	3.2	2.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.5 kW	7.4 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.995
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	0.5 kW	0.6 kW
Annual energy consumption Qhe	3555 kWh	4972 kWh

## Model PUZ-SWM100VAA + ERSD-\*M\*D

Model name	PUZ-SWM100VAA + ERSD-*M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	180 %	134 %
Prated	10 kW	10 kW
SCOP	4.58	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.8 kW	8.8 kW
COP Tj = -7°C	3.05	2.15
Cdh Tj = -7 °C	0.995	0.996
Pdh Tj = +2°C	5.4 kW	5.4 kW
COP Tj = +2°C	4.58	3.33
Cdh Tj = +2 °C	0.987	0.991
Pdh Tj = +7°C	5.2 kW	4.8 kW
COP Tj = +7°C	5.7	4.39
Cdh Tj = +7 °C	0.984	0.986
Pdh Tj = 12°C	3.2 kW	2.9 kW
COP Tj = 12°C	6.61	5.99
Cdh Tj = +12 °C	0.969	0.969

Pdh Tj = Tbiv	8.8 kW	8.8 kW
COP Tj = Tbiv	3.05	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.4	1.7
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.997
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 kW	1.5 kW
Annual energy consumption Qhe	4509 kWh	6051 kWh

## Model PUZ-SWM100YAA + ERSD-\*M\*D

Model name	PUZ-SWM100YAA + ERSD-*M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	180 %	133 %
Prated	10 kW	10 kW
SCOP	4.57	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.8 kW	8.8 kW
COP Tj = -7°C	3.05	2.15
Cdh Tj = -7 °C	0.992	0.995
Pdh Tj = +2°C	5.4 kW	5.4 kW
COP Tj = +2°C	4.58	3.33
Cdh Tj = +2 °C	0.981	0.986
Pdh Tj = +7°C	5.2 kW	4.8 kW
COP Tj = +7°C	5.7	4.39
Cdh Tj = +7 °C	0.976	0.98
Pdh Tj = 12°C	3.2 kW	2.9 kW
COP Tj = 12°C	6.61	5.99
Cdh Tj = +12 °C	0.955	0.955

Pdh Tj = Tbiv	8.8 kW	8.8 kW
COP Tj = Tbiv	3.05	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.4	1.7
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
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 kW	1.5 kW
Annual energy consumption Qhe	4519 kWh	6061 kWh