

Subtype Ecodan Zubadan (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 Zubadan (TR) 6/8/10 + 200D AA
Registration number	037-0122-23
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-SHWM60VAA + EHST20D-*M*D

Model name	PUZ-SHWM60VAA + 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 η_{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-SHWM80VAA + EHST20D-*M*D

Model name	PUZ-SHWM80VAA + 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 η_{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-SHWM80YAA + EHST20D-*M*D

Model name	PUZ-SHWM80YAA + 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 η_{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-SHWM100VAA + EHST20D-*M*D

Model name	PUZ-SHWM100VAA + 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 η_{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-SHWM100YAA + EHST20D-*M*D

Model name	PUZ-SHWM100YAA + 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 η_{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-SHWM60VAA + EHSD-*M*D

Model name	PUZ-SHWM60VAA + 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
η_s	184 %	129 %
Prated	6 kW	6 kW
SCOP	4.67	3.3
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.31 kW	5.31 kW
COP Tj = -7°C	3.39	2.28
Cdh Tj = -7 °C	0.99	0.994
Pdh Tj = +2°C	4.8 kW	4.4 kW
COP Tj = +2°C	4.76	3.21
Cdh Tj = +2 °C	0.985	0.989
Pdh Tj = +7°C	4.9 kW	4.1 kW
COP Tj = +7°C	5.9	4.2
Cdh Tj = +7 °C	0.982	0.985
Pdh Tj = 12°C	3 kW	2.7 kW
COP Tj = 12°C	6.52	5.87
Cdh Tj = +12 °C	0.967	0.967
Pdh Tj = Tbiv	6 kW	6 kW

COP Tj = Tbiv	2.74	2
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	2
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	2655 kWh	3761 kWh

Model PUZ-SHWM80VAA + EHSD-*M*D

Model name	PUZ-SHWM80VAA + 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
η_s	184 %	132 %
Prated	8 kW	8 kW
SCOP	4.68	3.37
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	3.22	2.31
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	4.4 kW	4.4 kW
COP Tj = +2°C	4.75	3.21
Cdh Tj = +2 °C	0.984	0.989
Pdh Tj = +7°C	5 kW	4.4 kW
COP Tj = +7°C	5.9	4.4
Cdh Tj = +7 °C	0.982	0.985
Pdh Tj = 12°C	3 kW	2.8 kW
COP Tj = 12°C	6.52	6.09
Cdh Tj = +12 °C	0.967	0.967
Pdh Tj = Tbiv	8 kW	8 kW

COP Tj = Tbiv	2.65	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	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	0 kW	0 kW
Annual energy consumption Qhe	3530 kWh	4904 kWh

Model PUZ-SHWM80YAA + EHSD-*M*D

Model name	PUZ-SHWM80YAA + 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
η_s	182 %	131 %
Prated	8 kW	8 kW
SCOP	4.63	3.34
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	3.22	2.31
Cdh Tj = -7 °C	0.99	0.993
Pdh Tj = +2°C	4.4 kW	4.4 kW
COP Tj = +2°C	4.75	3.21
Cdh Tj = +2 °C	0.976	0.984
Pdh Tj = +7°C	5 kW	4.4 kW
COP Tj = +7°C	5.9	4.4
Cdh Tj = +7 °C	0.974	0.978
Pdh Tj = 12°C	3 kW	2.8 kW
COP Tj = 12°C	6.52	6.09
Cdh Tj = +12 °C	0.952	0.952
Pdh Tj = Tbiv	8 kW	8 kW

COP Tj = Tbiv	2.65	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	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 kW	0 kW
Annual energy consumption Qhe	3568 kWh	4941 kWh

Model PUZ-SHWM100VAA + EHSD-*M*D

Model name	PUZ-SHWM100VAA + 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
η_s	183 %	136 %
Prated	10 kW	10 kW
SCOP	4.65	3.48
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.85 kW	8.85 kW
COP Tj = -7°C	3.1	2.19
Cdh Tj = -7 °C	0.995	0.996
Pdh Tj = +2°C	5.4 kW	5.4 kW
COP Tj = +2°C	4.62	3.38
Cdh Tj = +2 °C	0.987	0.991
Pdh Tj = +7°C	5.2 kW	4.8 kW
COP Tj = +7°C	6	4.62
Cdh Tj = +7 °C	0.983	0.986
Pdh Tj = 12°C	3.2 kW	2.9 kW
COP Tj = 12°C	6.96	6.3
Cdh Tj = +12 °C	0.967	0.967
Pdh Tj = Tbiv	10 kW	10 kW

COP Tj = Tbiv	2.49	1.69
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.49	1.69
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	0 kW	0 kW
Annual energy consumption Qhe	4444 kWh	5936 kWh

Model PUZ-SHWM100YAA + EHSD-*M*D

Model name	PUZ-SHWM100YAA + 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
η_s	181 %	135 %
Prated	10 kW	10 kW
SCOP	4.61	3.46
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.85 kW	8.85 kW
COP Tj = -7°C	3.1	2.19
Cdh Tj = -7 °C	0.992	0.995
Pdh Tj = +2°C	5.4 kW	5.4 kW
COP Tj = +2°C	4.62	3.38
Cdh Tj = +2 °C	0.981	0.986
Pdh Tj = +7°C	5.2 kW	4.8 kW
COP Tj = +7°C	6	4.62
Cdh Tj = +7 °C	0.975	0.979
Pdh Tj = 12°C	3.2 kW	2.9 kW
COP Tj = 12°C	6.96	6.3
Cdh Tj = +12 °C	0.952	0.952
Pdh Tj = Tbiv	10 kW	10 kW

COP Tj = Tbiv	2.49	1.69
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.49	1.69
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	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	0 kW	0 kW
Annual energy consumption Qhe	4480 kWh	5972 kWh

Model PUZ-SHWM60VAA + ERST20D-*M*D

Model name	PUZ-SHWM60VAA + 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 η_{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-SHWM80VAA + ERST20D-*M*D

Model name	PUZ-SHWM80VAA + 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 η_{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-SHWM80YAA + ERST20D-*M*D

Model name	PUZ-SHWM80YAA + 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 η_{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-SHWM100VAA + ERST20D-*M*D

Model name	PUZ-SHWM100VAA + 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 η_{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-SHWM100YAA + ERST20D-*M*D

Model name	PUZ-SHWM100YAA + 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 η_{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-SHWM60VAA + ERSD-*M*D

Model name	PUZ-SHWM60VAA + 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
η_s	188 %	131 %
Prated	6 kW	6 kW
SCOP	4.77	3.34
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.31 kW	5.31 kW
COP Tj = -7°C	3.39	2.28
Cdh Tj = -7 °C	0.99	0.994
Pdh Tj = +2°C	4.8 kW	4.4 kW
COP Tj = +2°C	4.76	3.21
Cdh Tj = +2 °C	0.985	0.989
Pdh Tj = +7°C	4.9 kW	4.1 kW
COP Tj = +7°C	5.9	4.2
Cdh Tj = +7 °C	0.982	0.985
Pdh Tj = 12°C	3 kW	2.7 kW
COP Tj = 12°C	6.52	5.87
Cdh Tj = +12 °C	0.967	0.967

Pdh Tj = Tbiv	6 kW	6 kW
COP Tj = Tbiv	2.74	2
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	2
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	2600 kWh	3706 kWh

Model PUZ-SHWM80VAA + ERSD-*M*D

Model name	PUZ-SHWM80VAA + 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
η_s	187 %	133 %
Prated	8 kW	8 kW
SCOP	4.76	3.41
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	3.22	2.31
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	4.4 kW	4.4 kW
COP Tj = +2°C	4.75	3.21
Cdh Tj = +2 °C	0.984	0.989
Pdh Tj = +7°C	5 kW	4.4 kW
COP Tj = +7°C	5.9	4.4
Cdh Tj = +7 °C	0.982	0.985
Pdh Tj = 12°C	3 kW	2.8 kW
COP Tj = 12°C	6.52	6.09
Cdh Tj = +12 °C	0.967	0.967

Pdh Tj = Tbiv	8 kW	8 kW
COP Tj = Tbiv	2.65	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	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	0 kW	0 kW
Annual energy consumption Qhe	3475 kWh	4849 kWh

Model PUZ-SHWM80YAA + ERSD-*M*D

Model name	PUZ-SHWM80YAA + 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
η_s	187 %	133 %
Prated	8 kW	8 kW
SCOP	4.74	3.4
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	3.22	2.31
Cdh Tj = -7 °C	0.99	0.993
Pdh Tj = +2°C	4.4 kW	4.4 kW
COP Tj = +2°C	4.75	3.21
Cdh Tj = +2 °C	0.976	0.984
Pdh Tj = +7°C	5 kW	4.4 kW
COP Tj = +7°C	5.9	4.4
Cdh Tj = +7 °C	0.974	0.978
Pdh Tj = 12°C	3 kW	2.8 kW
COP Tj = 12°C	6.52	6.09
Cdh Tj = +12 °C	0.952	0.952

Pdh Tj = Tbiv	8 kW	8 kW
COP Tj = Tbiv	2.65	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	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 kW	0 kW
Annual energy consumption Qhe	3487 kWh	4860 kWh

Model PUZ-SHWM100VAA + ERSD-*M*D

Model name	PUZ-SHWM100VAA + 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
η_s	185 %	138 %
Prated	10 kW	10 kW
SCOP	4.71	3.51
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.85 kW	8.85 kW
COP Tj = -7°C	3.1	2.19
Cdh Tj = -7 °C	0.995	0.996
Pdh Tj = +2°C	5.4 kW	5.4 kW
COP Tj = +2°C	4.62	3.38
Cdh Tj = +2 °C	0.987	0.991
Pdh Tj = +7°C	5.2 kW	4.8 kW
COP Tj = +7°C	6	4.62
Cdh Tj = +7 °C	0.983	0.986
Pdh Tj = 12°C	3.2 kW	2.9 kW
COP Tj = 12°C	6.96	6.3
Cdh Tj = +12 °C	0.967	0.967

Pdh Tj = Tbiv	10 kW	10 kW
COP Tj = Tbiv	2.49	1.69
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.49	1.69
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	0 kW	0 kW
Annual energy consumption Qhe	4389 kWh	5881 kWh

Model PUZ-SHWM100YAA + ERSD-*M*D

Model name	PUZ-SHWM100YAA + 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
η_s	185 %	137 %
Prated	10 kW	10 kW
SCOP	4.7	3.51
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.85 kW	8.85 kW
COP Tj = -7°C	3.1	2.19
Cdh Tj = -7 °C	0.992	0.995
Pdh Tj = +2°C	5.4 kW	5.4 kW
COP Tj = +2°C	4.62	3.38
Cdh Tj = +2 °C	0.981	0.986
Pdh Tj = +7°C	5.2 kW	4.8 kW
COP Tj = +7°C	6	4.62
Cdh Tj = +7 °C	0.975	0.979
Pdh Tj = 12°C	3.2 kW	2.9 kW
COP Tj = 12°C	6.96	6.3
Cdh Tj = +12 °C	0.952	0.952

Pdh Tj = Tbiv	10 kW	10 kW
COP Tj = Tbiv	2.49	1.69
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.49	1.69
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	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	0 kW	0 kW
Annual energy consumption Qhe	4399 kWh	5891 kWh