

Subtype Ecodan Zubadan (TR) 14 + 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) 14 + 200D AA
Registration number	037-0126-23
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-SHWM140VAA + EHST20D-*M*D

Model name	PUZ-SHWM140VAA + 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}	123 %
COP	2.95
Heating up time	1:27 h:min
Standby power input	38 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	274 l

Model PUZ-SHWM140YAA + EHST20D-*M*D

Model name	PUZ-SHWM140YAA + 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}	123 %
COP	2.95
Heating up time	1:27 h:min
Standby power input	38 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	274 l

Model PUZ-SHWM140VAA + EHSD-*M*D

Model name	PUZ-SHWM140VAA + 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 %	141 %
Prated	14 kW	14 kW
SCOP	4.65	3.61
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.4 kW	12.4 kW
COP Tj = -7°C	3	2.18
Cdh Tj = -7 °C	0.996	0.997
Pdh Tj = +2°C	7.5 kW	7.5 kW
COP Tj = +2°C	4.59	3.49
Cdh Tj = +2 °C	0.991	0.993
Pdh Tj = +7°C	6.4 kW	6.3 kW
COP Tj = +7°C	6	4.85
Cdh Tj = +7 °C	0.986	0.988
Pdh Tj = 12°C	4.1 kW	3.9 kW
COP Tj = 12°C	7.19	6.61
Cdh Tj = +12 °C	0.974	0.975
Pdh Tj = Tbiv	14 kW	14 kW

COP Tj = Tbiv	2.55	1.92
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14 kW	14 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
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	6227 kWh	8021 kWh

Model PUZ-SHWM140YAA + EHSD-*M*D

Model name	PUZ-SHWM140YAA + 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	182 %	141 %
Prated	14 kW	14 kW
SCOP	4.62	3.59
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.4 kW	12.4 kW
COP Tj = -7°C	3	2.18
Cdh Tj = -7 °C	0.995	0.996
Pdh Tj = +2°C	7.5 kW	7.5 kW
COP Tj = +2°C	4.59	3.49
Cdh Tj = +2 °C	0.987	0.99
Pdh Tj = +7°C	6.4 kW	6.3 kW
COP Tj = +7°C	6	4.85
Cdh Tj = +7 °C	0.979	0.983
Pdh Tj = 12°C	4.1 kW	3.9 kW
COP Tj = 12°C	7.19	6.61
Cdh Tj = +12 °C	0.961	0.963
Pdh Tj = Tbiv	14 kW	14 kW

COP Tj = Tbiv	2.55	1.92
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14 kW	14 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.997
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	6262 kWh	8055 kWh

Model PUZ-SHWM140VAA + ERST20D-*M*D

Model name	PUZ-SHWM140VAA + 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}	123 %
COP	2.95
Heating up time	1:27 h:min
Standby power input	38 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	274 l

Model PUZ-SHWM140YAA + ERST20D-*M*D

Model name	PUZ-SHWM140YAA + ERST20D-*M*D
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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

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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	184 %	142 %
Prated	14 kW	14 kW
SCOP	4.69	3.63
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.4 kW	12.4 kW
COP Tj = -7°C	3	2.18
Cdh Tj = -7 °C	0.996	0.997
Pdh Tj = +2°C	7.5 kW	7.5 kW
COP Tj = +2°C	4.59	3.49
Cdh Tj = +2 °C	0.991	0.993
Pdh Tj = +7°C	6.4 kW	6.3 kW
COP Tj = +7°C	6	4.85
Cdh Tj = +7 °C	0.986	0.988
Pdh Tj = 12°C	4.1 kW	3.9 kW
COP Tj = 12°C	7.19	6.61
Cdh Tj = +12 °C	0.974	0.975

Pdh Tj = Tbiv	14 kW	14 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14 kW	14 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
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	6172 kWh	7965 kWh

Model PUZ-SHWM140YAA + ERSD-*M*D

Model name	PUZ-SHWM140YAA + 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

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Power supply	3x400V 50Hz
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	Low temperature	Medium temperature
η_s	184 %	142 %
Prated	14 kW	14 kW
SCOP	4.68	3.63
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.4 kW	12.4 kW
COP Tj = -7°C	3	2.18
Cdh Tj = -7 °C	0.995	0.996
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COP Tj = +2°C	4.59	3.49
Cdh Tj = +2 °C	0.987	0.99
Pdh Tj = +7°C	6.4 kW	6.3 kW
COP Tj = +7°C	6	4.85
Cdh Tj = +7 °C	0.979	0.983
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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.997
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	6181 kWh	7974 kWh