Subtype Ecodan Power Inverter 8-200E 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 8-200E Packaged R290
Registration number	037-0136-23
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1 kg
Certification Date	31.08.2023
Testing basis	HP Keymark scheme rules rev. no. 10

This information was generated by the HP KEYMARK database on 14.11.2023

Model PUZ-WZ80VAA(-BS) + EHPT20X-*M*E	
Model name	PUZ-WZ80VAA(-BS) + EHPT20X-*M*E
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 ηDHW	134 %
COP	3.19
Heating up time	2:59 h:min
Standby power input	41 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l
EN 16147 | Warmer Climate	
Declared load profile	L
Efficiency ηDHW	148 %
COP	3.51
Heating up time	2:34 h:min
Standby power input	39 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Model PUZ-WZ80VAA(-BS) + ERPT20X-*M*E	
Model name	PUZ-WZ80VAA(-BS) + ERPT20X-*M*E
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 ηDHW	134 %
COP	3.19
Heating up time	2:59 h:min
Standby power input	41 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l
EN 16147 | Warmer Climate	
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Efficiency ηDHW	148 %
COP	3.51
Heating up time	2:34 h:min
Standby power input	39 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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Model PUZ-WZ80VAA(-BS) + ERPX-ME	
Model name	PUZ-WZ80VAA(-BS) + ERPX-ME
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	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	176 %	140 %
Prated	8 kW	8 kW
SCOP	4.49	3.56
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	3.04	2.19
Cdh Tj = -7 °C	0.994	0.995
Pdh Tj = +2°C	4.36 kW	4.33 kW
COP Tj = +2°C	4.13	3.34
Cdh Tj = +2 °C	0.986	0.988
Pdh Tj = +7°C	2.81 kW	2.78 kW
COP Tj = +7°C	6.17	5
Cdh Tj = +7 °C	0.967	0.973
Pdh Tj = 12°C	2.14 kW	1.91 kW
COP Tj = 12°C	7.68	6.55
Cdh Tj = +12 °C	0.946	0.949

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Pdh Tj = Tbiv	7.08 kW	7.08 kW
COP Tj = Tbiv	3.04	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.1 kW	7.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.79
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
WTOL	75 °C	75 °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	0.9 kW	0.85 kW
Annual energy consumption Qhe	3683 kWh	4639 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	234 %	163 %
Prated	8 kW	8 kW
SCOP	5.93	4.15
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	8 kW	8 kW
COP Tj = +2°C	3.42	2.12
Cdh Tj = +2 °C	0.994	0.996
Pdh Tj = +7°C	5.14 kW	5.14 kW
COP Tj = +7°C	5.26	3.26
Cdh Tj = +7 °C	0.985	0.99
Pdh Tj = 12°C	2.29 kW	2.29 kW
COP Tj = 12°C	7.24	5.84
Cdh Tj = +12 °C	0.953	0.962
Pdh Tj = Tbiv	8 kW	8 kW
COP Tj = Tbiv	3.42	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.42	2.12
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996

This information was generated by the HP KEYMARK database on 14.11.2023

WTOL	75 °C	75 °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	1803 kWh	2575 kWh

Model PUZ-WZ80VAA(-BS) + ERPX-*M*E	
Model name	PUZ-WZ80VAA(-BS) + ERPX-*M*E
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	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	176 %	140 %
Prated	8 kW	8 kW
SCOP	4.49	3.56
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	3.04	2.19
Cdh Tj = -7 °C	0.994	0.995
Pdh Tj = +2°C	4.36 kW	4.33 kW
COP Tj = +2°C	4.13	3.34
Cdh Tj = +2 °C	0.986	0.988
Pdh Tj = +7°C	2.81 kW	2.78 kW
COP Tj = +7°C	6.17	5
Cdh Tj = +7 °C	0.967	0.973
Pdh Tj = 12°C	2.14 kW	1.91 kW
COP Tj = 12°C	7.68	6.55
Cdh Tj = +12 °C	0.946	0.949

Pdh Tj = Tbiv	7.08 kW	7.08 kW
COP Tj = Tbiv	3.04	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.1 kW	7.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.79
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996
WTOL	75 °C	75 °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	0.9 kW	0.85 kW
Annual energy consumption Qhe	3683 kWh	4639 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	234 %	163 %
Prated	8 kW	8 kW
SCOP	5.93	4.15
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	8 kW	8 kW
COP Tj = +2°C	3.42	2.12
Cdh Tj = +2 °C	0.994	0.996
Pdh Tj = +7°C	5.14 kW	5.14 kW
COP Tj = +7°C	5.26	3.26
Cdh Tj = +7 °C	0.985	0.99
Pdh Tj = 12°C	2.29 kW	2.29 kW
COP Tj = 12°C	7.24	5.84
Cdh Tj = +12 °C	0.953	0.962
Pdh Tj = Tbiv	8 kW	8 kW
COP Tj = Tbiv	3.42	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.42	2.12
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.996

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WTOL	75 °C	75 °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	1803 kWh	2575 kWh

Model PUZ-WZ80VAA(-BS) + -	
Model name	PUZ-WZ80VAA(-BS) + -
Application	Heating (medium temp)
Units	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
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EN 14825 | Average Climate		
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PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1803 kWh	2575 kWh