

Subtype Ecodan Power Inverter 20

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 20
Registration number	037-0053-20
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	7.7 kg
Certification Date	09.04.2020
Testing basis	HP Keymark scheme rules rev. no. 7
Testing laboratory	SZU Brno, CZ

Model PUAZ-SW200YKA(-BS) + EHSE-*M*D

Model name	PUAZ-SW200YKA(-BS) + EHSE-*M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	25 kW	25 kW
El input	6.25 kW	10.2 kW
COP	4	2.45

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	78 dB(A)	78 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	163 %	127 %
Prated	17.3 kW	15.5 kW
SCOP	4.14	3.26
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	15.3 kW	13.7 kW
COP Tj = -7°C	2.53	1.83
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	9.3 kW	8.3 kW
COP Tj = +2°C	4.2	3.28
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	6.3 kW	5.9 kW

COP Tj = +7°C	5.22	4.27
Cdh Tj = +7 °C	0.99	0.98
Pdh Tj = 12°C	7.7 kW	7.4 kW
COP Tj = 12°C	7.08	6.31
Cdh Tj = +12 °C	0.99	0.98
Pdh Tj = Tbiv	15.3 kW	13.7 kW
COP Tj = Tbiv	2.53	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.2 kW	13 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.3	1.78
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	3.1 kW	2.5 kW
Annual energy consumption Qhe	8638 kWh	9820 kWh

Model PUAZ-SW200YKA(-BS) + EHSE-M*D

Model name	PUAZ-SW200YKA(-BS) + EHSE-M*D
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Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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

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Annual energy consumption Qhe	8638 kWh	9820 kWh

Model PUAZ-SW200YKA(-BS) + ERSE-*M*D

Model name	PUHZ-SW200YKA(-BS) + ERSE-*M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
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

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SCOP	4.18	3.29
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Annual energy consumption Qhe	8558 kWh	9740 kWh

Model PUAZ-SW200YKA(-BS) + ERSE-M*D

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Reversibility	Yes
Cooling mode application (optional)	n/a
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