

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	Ecodan Power Inverter 20	Reg. No.	037-0053-20
Certificate Holder			
Name	Mitsubishi Electric Air Conditioning Systems Europe LTD		
Address	Nettlehill Road, Houston Industrial Estate	Zip	EH54 5EQ
City	Livingston	Country	United Kingdom
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)		
Name of testing laboratory	RISE Research Institute of Sweden		
Subtype title	Ecodan Power Inverter 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		

Model: PUAZ-SW200YKA(-BS) + EHSE-M*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	25.00 kW	25.00 kW
El input	6.25 kW	10.20 kW
COP	4.00	2.45
Indoor water flow rate	4.30 m ³ /h	2.69 m ³ /h

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	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

	Low temperature	Medium temperature
η_s	162 %	128 %
Prated	17.30 kW	15.50 kW
SCOP	4.14	3.26
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	15.30 kW	13.70 kW
COP Tj = -7°C	2.53	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	9.30 kW	8.30 kW
COP Tj = +2°C	4.24	3.30
Cdh	0.99	0.99
Pdh Tj = +7°C	6.30 kW	5.90 kW
COP Tj = +7°C	5.21	4.27
Cdh	0.99	0.99

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.07	6.31
Cdh	0.99	0.99
Pdh Tj = Tbiv	15.30 kW	13.70 kW
COP Tj = Tbiv	2.53	1.83
Pdh Tj = TOL	10.50 kW	10.50 kW
COP Tj = TOL	1.52	1.62
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	3.10 kW	2.50 kW
Annual energy consumption Qhe	8410 kWh	9623 kWh

Model: PUAZ-SW200YKA(-BS) + EHSE-YM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	25.00 kW	25.00 kW
El input	6.25 kW	10.20 kW
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Indoor water flow rate	4.30 m ³ /h	2.69 m ³ /h

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
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EN 14825

	Low temperature	Medium temperature
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Cdh	0.99	0.99
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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	3.10 kW	2.50 kW
Annual energy consumption Qhe	8410 kWh	9623 kWh

Model: PUAZ-SW200YKA(-BS) + ERSE-M*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	25.00 kW	25.00 kW
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COP	4.00	2.45
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EN 14511-4

Shutting off the heat transfer medium flow	passed
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Average Climate

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Pdh Tj = -7°C	15.30 kW	13.70 kW
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Pdh Tj = +2°C	9.30 kW	8.30 kW
COP Tj = +2°C	4.24	3.30
Cdh	0.99	0.99
Pdh Tj = +7°C	6.30 kW	5.90 kW
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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	3.10 kW	2.50 kW
Annual energy consumption Qhe	8410 kWh	9623 kWh

Model: PUAZ-SW200YKA(-BS) + ERSE-YM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	25.00 kW	25.00 kW
El input	6.25 kW	10.20 kW
COP	4.00	2.45
Indoor water flow rate	4.30 m ³ /h	2.69 m ³ /h

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

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COP Tj = -7°C	2.53	1.83
Cdh	0.99	0.99
Pdh Tj = +2°C	9.30 kW	8.30 kW
COP Tj = +2°C	4.24	3.30
Cdh	0.99	0.99
Pdh Tj = +7°C	6.30 kW	5.90 kW
COP Tj = +7°C	5.21	4.27
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Pdh Tj = TOL	10.50 kW	10.50 kW
COP Tj = TOL	1.52	1.62
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	3.10 kW	2.50 kW
Annual energy consumption Qhe	8410 kWh	9623 kWh

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	25.00 kW	25.00 kW
El input	6.25 kW	10.20 kW
COP	4.00	2.45
Indoor water flow rate	4.30 m ³ /h	2.69 m ³ /h

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	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

	Low temperature	Medium temperature
η_s	163 %	127 %
Prated	17.30 kW	15.50 kW
SCOP	4.14	3.26
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	15.30 kW	13.70 kW
COP Tj = -7°C	2.53	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	9.30 kW	8.30 kW
COP Tj = +2°C	4.24	3.30
Cdh	0.99	0.99
Pdh Tj = +7°C	6.30 kW	5.90 kW
COP Tj = +7°C	5.22	4.27
Cdh	0.99	0.98

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.08	6.31
Cdh	0.99	0.98
Pdh Tj = Tbiv	15.30 kW	13.70 kW
COP Tj = Tbiv	2.53	1.83
Pdh Tj = TOL	10.50 kW	10.50 kW
COP Tj = TOL	1.52	1.60
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	3.11 kW	2.54 kW
Annual energy consumption Qhe	8410 kWh	9623 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	78 dB(A)	78 dB(A)

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14825

	Low temperature	Medium temperature
η_s	209 %	127 %
Prated	17.30 kW	15.50 kW
SCOP	5.29	3.74
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	17.30 kW	15.50 kW
COP Tj = +2°C	3.01	1.80
Cdh	0.99	0.99
Pdh Tj = +7°C	11.10 kW	10.00 kW
COP Tj = +7°C	4.70	3.00
Cdh	0.99	0.99
Pdh Tj = 12°C	7.60 kW	7.20 kW
COP Tj = 12°C	6.69	5.37
Cdh	0.99	0.99
Pdh Tj = Tbiv	15.30 kW	13.70 kW
COP Tj = Tbiv	2.53	1.74
Pdh Tj = TOL	10.50 kW	10.50 kW
COP Tj = TOL	1.52	1.52
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	0.00 kW	0.00 kW
Annual energy consumption Qhe	4278 kWh	5449 kWh

Model: PUAZ-SW200YKA(-BS) + EHSE-YM*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	25.00 kW	25.00 kW
El input	6.25 kW	10.20 kW
COP	4.00	2.45
Indoor water flow rate	4.30 m ³ /h	2.69 m ³ /h

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

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EN 12102-1

	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

	Low temperature	Medium temperature
η_s	163 %	127 %
Prated	17.30 kW	15.50 kW
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Pdh Tj = -7°C	15.30 kW	13.70 kW
COP Tj = -7°C	2.53	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	9.30 kW	8.30 kW
COP Tj = +2°C	4.24	3.30
Cdh	0.99	0.99
Pdh Tj = +7°C	6.30 kW	5.90 kW
COP Tj = +7°C	5.22	4.27
Cdh	0.99	0.98

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.08	6.31
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Pdh Tj = Tbiv	15.30 kW	13.70 kW
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Pdh Tj = TOL	10.50 kW	10.50 kW
COP Tj = TOL	1.52	1.60
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	3.11 kW	2.54 kW
Annual energy consumption Qhe	8410 kWh	9623 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	78 dB(A)	78 dB(A)

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14825

	Low temperature	Medium temperature
η_s	209 %	127 %
Prated	17.30 kW	15.50 kW
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Pdh Tj = +2°C	17.30 kW	15.50 kW
COP Tj = +2°C	3.01	1.80
Cdh	0.99	0.99
Pdh Tj = +7°C	11.10 kW	10.00 kW
COP Tj = +7°C	4.70	3.00
Cdh	0.99	0.99
Pdh Tj = 12°C	7.60 kW	7.20 kW
COP Tj = 12°C	6.69	5.37
Cdh	0.99	0.99
Pdh Tj = Tbiv	15.30 kW	13.70 kW
COP Tj = Tbiv	2.53	1.74
Pdh Tj = TOL	10.50 kW	10.50 kW
COP Tj = TOL	1.52	1.52
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	0.00 kW	0.00 kW
Annual energy consumption Qhe	4278 kWh	5449 kWh

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	25.00 kW	25.00 kW
El input	6.25 kW	10.20 kW
COP	4.00	2.45
Indoor water flow rate	4.30 m ³ /h	2.69 m ³ /h

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	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

	Low temperature	Medium temperature
η_s	164 %	129 %
Prated	17.30 kW	15.50 kW
SCOP	4.18	3.29
Tbiv	-7 °C	-7 °C
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Pdh Tj = -7°C	15.30 kW	13.70 kW
COP Tj = -7°C	2.53	1.83
Cdh	1.00	1.00
Pdh Tj = +2°C	9.30 kW	8.30 kW
COP Tj = +2°C	4.24	3.30
Cdh	0.99	0.99
Pdh Tj = +7°C	6.30 kW	5.90 kW
COP Tj = +7°C	5.22	4.27
Cdh	0.99	0.98

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COP Tj = TOL	1.52	1.60
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	3.11 kW	2.54 kW
Annual energy consumption Qhe	8410 kWh	9623 kWh

Warmer Climate

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

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EN 14825

	Low temperature	Medium temperature
η_s	211 %	129 %
Prated	17.30 kW	15.50 kW
SCOP	5.36	3.78
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	17.30 kW	15.50 kW
COP Tj = +2°C	3.01	1.80
Cdh	0.99	0.99
Pdh Tj = +7°C	11.10 kW	10.00 kW
COP Tj = +7°C	4.70	3.00
Cdh	0.99	0.99
Pdh Tj = 12°C	7.60 kW	7.20 kW
COP Tj = 12°C	6.69	5.37
Cdh	0.99	0.99
Pdh Tj = Tbiv	15.30 kW	13.70 kW
COP Tj = Tbiv	2.53	1.74
Pdh Tj = TOL	10.50 kW	10.50 kW
COP Tj = TOL	1.52	1.52
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	0.00 kW	0.00 kW
Annual energy consumption Qhe	4278 kWh	5449 kWh

Model: PUAZ-SW200YKA(-BS) + ERSE-YM*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	25.00 kW	25.00 kW
El input	6.25 kW	10.20 kW
COP	4.00	2.45
Indoor water flow rate	4.30 m ³ /h	2.69 m ³ /h

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

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Pdh Tj = TOL	10.50 kW	10.50 kW
COP Tj = TOL	1.52	1.60
WTOL	60 °C	60 °C
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PSB	22 W	22 W
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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.11 kW	2.54 kW
Annual energy consumption Qhe	8410 kWh	9623 kWh

Warmer Climate

EN 12102-1		
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Pdh Tj = +2°C	17.30 kW	15.50 kW
COP Tj = +2°C	3.01	1.80
Cdh	0.99	0.99
Pdh Tj = +7°C	11.10 kW	10.00 kW
COP Tj = +7°C	4.70	3.00
Cdh	0.99	0.99
Pdh Tj = 12°C	7.60 kW	7.20 kW
COP Tj = 12°C	6.69	5.37
Cdh	0.99	0.99
Pdh Tj = Tbiv	15.30 kW	13.70 kW
COP Tj = Tbiv	2.53	1.74
Pdh Tj = TOL	10.50 kW	10.50 kW
COP Tj = TOL	1.52	1.52
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	0.00 kW	0.00 kW
Annual energy consumption Qhe	4278 kWh	5449 kWh