

This information was generated by the HP KEYMARK database on 22 Jun 2022

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Summary of	Ecodan Power Inverter 6	Reg. No.	037-0054-20
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)		
Subtype title	Ecodan Power Inverter 6		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.4 kg		
Certification Date	09.04.2020		
Testing basis	HP Keymark scheme rules rev. no. 7		

Model: PUAZ-SW50VKA(-BS) + EHST20D-M*C

Configure model

Model name	PUHZ-SW50VKA(-BS) + EHST20D-M*C
Application	Heating + DHW
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	5.5 kW	
El input	2.48 kW	
COP	2.22	

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 22 Jun 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	
Sound power level outdoor	63 dB(A)	

EN 14825

	Low temperature	Medium temperature
η_s	125 %	
Prated	4.3 kW	
SCOP	3.2	
Tbiv	-7 °C	
TOL	-15 °C	
Pdh Tj = -7°C	3.8 kW	
COP Tj = -7°C	2.14	
Cdh Tj = -7 °C	0.992	
Pdh Tj = +2°C	2.3 kW	
COP Tj = +2°C	3.05	
Cdh Tj = +2 °C	0.98	
Pdh Tj = +7°C	2.2 kW	
COP Tj = +7°C	4.42	
Cdh Tj = +7 °C	0.97	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = 12°C	2.7 kW
COP Tj = 12°C	6.37
Cdh Tj = +12 °C	0.98
Pdh Tj = Tbiv	3.8 kW
COP Tj = Tbiv	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.84
WTOL	60 °C
Poff	15 W
PTO	15 W
PSB	15 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.72 kW
Annual energy consumption Qhe	2780 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	98 %
COP	2.33
Heating up time	01:55 h:min
Standby power input	58 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SW50VKA(-BS) + EHST20D-*M*C

Configure model

Model name	PUHZ-SW50VKA(-BS) + EHST20D-*M*C
Application	Heating + DHW
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	5.5 kW	
El input	2.48 kW	
COP	2.22	

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	40 dB(A)	
Sound power level outdoor	63 dB(A)	

EN 14825

	Low temperature	Medium temperature
η_s	125 %	
Prated	4.3 kW	
SCOP	3.2	
Tbiv	-7 °C	
TOL	-15 °C	
Pdh Tj = -7°C	3.8 kW	
COP Tj = -7°C	2.14	
Cdh Tj = -7 °C	0.992	
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COP Tj = +2°C	3.05	
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COP Tj = Tbiv	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.84
WTOL	60 °C
Poff	15 W
PTO	15 W
PSB	15 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.72 kW
Annual energy consumption Qhe	2780 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	98 %
COP	2.33
Heating up time	01:55 h:min
Standby power input	58 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SW50VKA(-BS) + EHSD-M*C

Configure model

Model name	PUHZ-SW50VKA(-BS) + EHSD-M*C
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	5.5 kW	5.5 kW
El input	1.22 kW	2.48 kW
COP	4.51	2.22

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	163 %	125 %
Prated	4.5 kW	4.3 kW
SCOP	4.16	3.2
Tbiv	-7 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4 kW	3.8 kW
COP Tj = -7°C	2.87	2.14
Cdh Tj = -7 °C	0.989	0.992
Pdh Tj = +2°C	2.4 kW	2.3 kW
COP Tj = +2°C	4.04	3.05
Cdh Tj = +2 °C	0.975	0.98
Pdh Tj = +7°C	2.3 kW	2.2 kW
COP Tj = +7°C	5.79	4.42
Cdh Tj = +7 °C	0.962	0.97

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = 12°C	2.7 kW	2.7 kW
COP Tj = 12°C	7.59	6.37
Cdh Tj = +12 °C	0.958	0.98
Pdh Tj = Tbiv	4 kW	3.8 kW
COP Tj = Tbiv	2.87	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.7 kW	3.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.84
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	0.8 kW	0.72 kW
Annual energy consumption Qhe	2235 kWh	2780 kWh

Model: PUAZ-SW50VKA(-BS) + EHSD-*M*C

Configure model

Model name	PUHZ-SW50VKA(-BS) + EHSD-*M*C
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	5.5 kW	5.5 kW
El input	1.22 kW	2.48 kW
COP	4.51	2.22

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	163 %	125 %
Prated	4.5 kW	4.3 kW
SCOP	4.16	3.2
Tbiv	-7 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4 kW	3.8 kW
COP Tj = -7°C	2.87	2.14
Cdh Tj = -7 °C	0.989	0.992
Pdh Tj = +2°C	2.4 kW	2.3 kW
COP Tj = +2°C	4.04	3.05
Cdh Tj = +2 °C	0.975	0.98
Pdh Tj = +7°C	2.3 kW	2.2 kW
COP Tj = +7°C	5.79	4.42
Cdh Tj = +7 °C	0.962	0.97

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COP Tj = 12°C	7.59	6.37
Cdh Tj = +12 °C	0.958	0.98
Pdh Tj = Tbiv	4 kW	3.8 kW
COP Tj = Tbiv	2.87	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.7 kW	3.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.84
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	0.8 kW	0.72 kW
Annual energy consumption Qhe	2235 kWh	2780 kWh

Model: PUAZ-SW50VKA(-BS) + ERST20D-M*C

Configure model	
Model name	PUHZ-SW50VKA(-BS) + ERST20D-M*C
Application	Heating + DHW
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.5 kW	
El input	2.48 kW	
COP	2.22	

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	
Sound power level outdoor	63 dB(A)	

EN 14825

	Low temperature	Medium temperature
η_s	128 %	
Prated	4.3 kW	
SCOP	3.26	
Tbiv	-7 °C	
TOL	-15 °C	
Pdh Tj = -7°C	3.8 kW	
COP Tj = -7°C	2.14	
Cdh Tj = -7 °C	0.992	
Pdh Tj = +2°C	2.3 kW	
COP Tj = +2°C	3.06	
Cdh Tj = +2 °C	0.98	
Pdh Tj = +7°C	2.2 kW	
COP Tj = +7°C	4.41	
Cdh Tj = +7 °C	0.97	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = 12°C	2.7 kW
COP Tj = 12°C	6.37
Cdh Tj = +12 °C	0.98
Pdh Tj = Tbiv	3.8 kW
COP Tj = Tbiv	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.84
WTOL	60 °C
Poff	15 W
PTO	15 W
PSB	15 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.72 kW
Annual energy consumption Qhe	2722 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	98 %
COP	2.33
Heating up time	01:55 h:min
Standby power input	58 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SW50VKA(-BS) + ERST20D-*M*C

Configure model

Model name	PUHZ-SW50VKA(-BS) + ERST20D-*M*C
Application	Heating + DHW
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	5.5 kW	
El input	2.48 kW	
COP	2.22	

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	
Sound power level outdoor	63 dB(A)	

EN 14825

	Low temperature	Medium temperature
η_s	128 %	
Prated	4.3 kW	
SCOP	3.26	
Tbiv	-7 °C	
TOL	-15 °C	
Pdh Tj = -7°C	3.8 kW	
COP Tj = -7°C	2.14	
Cdh Tj = -7 °C	0.992	
Pdh Tj = +2°C	2.3 kW	
COP Tj = +2°C	3.06	
Cdh Tj = +2 °C	0.98	
Pdh Tj = +7°C	2.2 kW	
COP Tj = +7°C	4.41	
Cdh Tj = +7 °C	0.97	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = 12°C	2.7 kW
COP Tj = 12°C	6.37
Cdh Tj = +12 °C	0.98
Pdh Tj = Tbiv	3.8 kW
COP Tj = Tbiv	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.84
WTOL	60 °C
Poff	15 W
PTO	15 W
PSB	15 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.72 kW
Annual energy consumption Qhe	2722 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	98 %
COP	2.33
Heating up time	01:55 h:min
Standby power input	58 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	292 l

Model: PUAZ-SW50VKA(-BS) + ERSD-*M*C

Configure model

Model name	PUAZ-SW50VKA(-BS) + ERSD-*M*C
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	5.5 kW	5.5 kW
El input	1.22 kW	2.48 kW
COP	4.51	2.22

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	167 %	128 %
Prated	4.5 kW	4.3 kW
SCOP	4.26	3.26
Tbiv	-7 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4 kW	3.8 kW
COP Tj = -7°C	2.87	2.14
Cdh Tj = -7 °C	0.989	0.992
Pdh Tj = +2°C	2.4 kW	2.3 kW
COP Tj = +2°C	4.03	3.06
Cdh Tj = +2 °C	0.975	0.98
Pdh Tj = +7°C	2.3 kW	2.2 kW
COP Tj = +7°C	5.79	4.41
Cdh Tj = +7 °C	0.962	0.97

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = 12°C	2.7 kW	2.7 kW
COP Tj = 12°C	7.59	6.37
Cdh Tj = +12 °C	0.958	0.98
Pdh Tj = Tbiv	4 kW	3.8 kW
COP Tj = Tbiv	2.87	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.7 kW	3.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.84
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	0.8 kW	0.72 kW
Annual energy consumption Qhe	2183 kWh	2722 kWh

Model: PUHZ-SW50VKA(-BS) + EHST20D-*M*C2

Configure model	
Model name	PUHZ-SW50VKA(-BS) + EHST20D-*M*C2
Application	Heating + DHW
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.5 kW	
El input	2.48 kW	
COP	2.22	

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	
Sound power level outdoor	63 dB(A)	

EN 14825

	Low temperature	Medium temperature
η_s	125 %	
Prated	4.3 kW	
SCOP	3.2	
Tbiv	-7 °C	
TOL	-15 °C	
Pdh Tj = -7°C	3.8 kW	
COP Tj = -7°C	2.14	
Cdh Tj = -7 °C	0.992	
Pdh Tj = +2°C	2.3 kW	
COP Tj = +2°C	3.05	
Cdh Tj = +2 °C	0.98	
Pdh Tj = +7°C	2.2 kW	
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.84
WTOL	60 °C
Poff	15 W
PTO	15 W
PSB	15 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.72 kW
Annual energy consumption Qhe	2780 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	146 %
COP	3.46
Heating up time	02:17 h:min
Standby power input	30 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	289 l

Model: PUAZ-SW50VKA(-BS) + ERST20D-*M*C2

Configure model	
Model name	PUHZ-SW50VKA(-BS) + ERST20D-*M*C2
Application	Heating + DHW
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.5 kW	
El input	2.48 kW	
COP	2.22	

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	
Sound power level outdoor	63 dB(A)	

EN 14825

	Low temperature	Medium temperature
η_s	128 %	
Prated	4.3 kW	
SCOP	3.26	
Tbiv	-7 °C	
TOL	-15 °C	
Pdh Tj = -7°C	3.8 kW	
COP Tj = -7°C	2.14	
Cdh Tj = -7 °C	0.992	
Pdh Tj = +2°C	2.3 kW	
COP Tj = +2°C	3.06	
Cdh Tj = +2 °C	0.98	
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Poff	15 W
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PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.72 kW
Annual energy consumption Qhe	2722 kWh

Domestic Hot Water (DHW)

Average Climate

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