Login

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: PUHZ-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

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	
COP Tj = +7°C	4.42	
Cdh Tj = +7 °C	0.97	

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

EN 16147

Declared load profile	L
Efficiency ηDHW	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: PUHZ-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

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	
COP Tj = +7°C	4.42	
Cdh Tj = +7 °C	0.97	

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

EN 16147	
Declared load profile	L
Efficiency ηDHW	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: PUHZ-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

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

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: PUHZ-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

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

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: PUHZ-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	

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 ηDHW	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: PUHZ-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	

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 ηDHW	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: PUHZ-SW50VKA(-BS) + ERSD-*M*C

Configure model	
Model name	PUHZ-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

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

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	
COP Tj = +7°C	4.42	
Cdh Tj = +7 °C	0.97	

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

EN 16147

Declared load profile	L
Efficiency ηDHW	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: PUHZ-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	
Pdh Tj = +7°C	2.2 kW	
COP Tj = +7°C	4.41	
Cdh Tj = +7 °C	0.97	

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 ηDHW	146 %
COP	3.46
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