Login

Summary of	Ecodan Power Inverter 8	Reg. No.	037-0055-20
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 8		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	3.2 kg		
Certification Date	09.04.2020		
Testing basis	HP Keymark scheme rules rev. no. 7		

Model: PUHZ-SW75VHA(-BS) + EHSD-M*C

Configure model	
Model name	PUHZ-SW75VHA(-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	8.00 kW	8.00 kW
El input	1.82 kW	2.98 kW
COP	4.40	2.68

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	68 dB(A)	68 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	165 %	127 %
Prated	7.20 kW	7.10 kW
SCOP	4.17	3.26
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.98	1.95
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.00	3.22
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	3.90 kW	3.70 kW
COP Tj = +7°C	5.55	4.46
Cdh Tj = +7 °C	0.970	0.970

Pdh Tj = 12°C	4.60 kW	4.30 kW
COP Tj = 12°C	7.50	5.89
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.98	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	6.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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	0.89 kW	0.87 kW
Annual energy consumption Qhe	3545 kWh	4497 kWh

Model: PUHZ-SW75VHA(-BS) + EHSD-*M*C

Configure model	
Model name	PUHZ-SW75VHA(-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	8.00 kW	8.00 kW
El input	1.82 kW	2.98 kW
COP	4.40	2.68

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	68 dB(A)	68 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	165 %	127 %
Prated	7.20 kW	7.10 kW
SCOP	4.17	3.26
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.98	1.95
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.00	3.22
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	3.90 kW	3.70 kW
COP Tj = +7°C	5.55	4.46
Cdh Tj = +7 °C	0.970	0.970

Pdh Tj = 12°C	4.60 kW	4.30 kW
COP Tj = 12°C	7.50	5.89
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.98	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	6.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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	0.89 kW	0.87 kW
Annual energy consumption Qhe	3545 kWh	4497 kWh

Model: PUHZ-SW75VHA(-BS) + EHST20D-M*C

Configure model	
Model name	PUHZ-SW75VHA(-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	8.00 kW	
El input	2.98 kW	
COP	2.68	

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	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	68 dB(A)

EN 14825	
	Medium temperature
η_s	127 %
Prated	7.10 kW
SCOP	3.26
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	1.95
Cdh Tj = -7 °C	0.970
Pdh Tj = +2°C	3.80 kW
COP Tj = +2°C	3.22
Cdh Tj = +2 °C	0.970
Pdh Tj = +7°C	3.70 kW
COP Tj = +7°C	4.46
Cdh Tj = +7 °C	0.970

Pdh Tj = 12°C	4.30 kW
COP Tj = 12°C	5.89
Cdh Tj = +12 °C	0.970
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
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	0.87 kW
Annual energy consumption Qhe	4497 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	105 %
COP	2.46
Heating up time	2:15 h:min
Standby power input	41.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	278 l

Model: PUHZ-SW75VHA(-BS) + EHST20D-*M*C

Configure model	
Model name	PUHZ-SW75VHA(-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	8.00 kW	
El input	2.98 kW	
COP	2.68	

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	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	68 dB(A)

EN 14825	
	Medium temperature
η_s	127 %
Prated	7.10 kW
SCOP	3.26
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	1.95
Cdh Tj = -7 °C	0.970
Pdh Tj = +2°C	3.80 kW
COP Tj = +2°C	3.22
Cdh Tj = +2 °C	0.970
Pdh Tj = +7°C	3.70 kW
COP Tj = +7°C	4.46
Cdh Tj = +7 °C	0.970

Pdh Tj = 12°C	4.30 kW
COP Tj = 12°C	5.89
Cdh Tj = +12 °C	0.970
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
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	0.87 kW
Annual energy consumption Qhe	4497 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	105 %
COP	2.46
Heating up time	2:15 h:min
Standby power input	41.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	278 l

Model: PUHZ-SW75VHA(-BS) + ERSD-*M*C

Configure model	
Model name	PUHZ-SW75VHA(-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	8.00 kW	8.00 kW
El input	1.82 kW	2.98 kW
COP	4.40	2.68

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	68 dB(A)	68 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	167 %	129 %
Prated	7.20 kW	7.10 kW
SCOP	4.26	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.98	1.95
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.00	3.22
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	3.90 kW	3.70 kW
COP Tj = +7°C	5.55	4.46
Cdh Tj = +7 °C	0.970	0.970

Pdh Tj = 12°C	4.60 kW	4.30 kW
COP Tj = 12°C	7.50	5.89
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.98	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	6.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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	0.89 kW	0.87 kW
Annual energy consumption Qhe	3490 kWh	4442 kWh

Model: PUHZ-SW75VHA(-BS) + ERST20D-M*C

Configure model	
Model name	PUHZ-SW75VHA(-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	8.00 kW	
El input	2.98 kW	
COP	2.68	

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	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	68 dB(A)

EN 14825	
	Medium temperature
η_s	129 %
Prated	7.10 kW
SCOP	3.30
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	1.95
Cdh Tj = -7 °C	0.970
Pdh Tj = +2°C	3.80 kW
COP Tj = +2°C	3.22
Cdh Tj = +2 °C	0.970
Pdh Tj = +7°C	3.70 kW
COP Tj = +7°C	4.46
Cdh Tj = +7 °C	0.970

Pdh Tj = 12°C	4.30 kW
COP Tj = 12°C	5.89
Cdh Tj = +12 °C	0.970
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
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	0.87 kW
Annual energy consumption Qhe	4442 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	105 %
COP	2.46
Heating up time	2:15 h:min
Standby power input	41.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	278 l

Model: PUHZ-SW75VHA(-BS) + ERST20D-*M*C

Configure model	
Model name	PUHZ-SW75VHA(-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	8.00 kW	
El input	2.98 kW	
COP	2.68	

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	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	68 dB(A)

EN 14825	
	Medium temperature
η_s	129 %
Prated	7.10 kW
SCOP	3.30
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	1.95
Cdh Tj = -7 °C	0.970
Pdh Tj = +2°C	3.80 kW
COP Tj = +2°C	3.22
Cdh Tj = +2 °C	0.970
Pdh Tj = +7°C	3.70 kW
COP Tj = +7°C	4.46
Cdh Tj = +7 °C	0.970

Pdh Tj = 12°C	4.30 kW
COP Tj = 12°C	5.89
Cdh Tj = +12 °C	0.970
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
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	0.87 kW
Annual energy consumption Qhe	4442 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	105 %
COP	2.46
Heating up time	2:15 h:min
Standby power input	41.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	278 l