Login

Summary of	Ecodan Eco Inverter 4	Reg. No.	037-0048-20
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 Eco Inverter 4		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.3 kg		
Certification Date	09.04.2020		
Testing basis	HP Keymark scheme rules rev. no. 7		

Model: SUHZ-SW45VA(H) + EHST20D-M*C

Configure model	
Model name	SUHZ-SW45VA(H) + 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	
	Medium temperature
Heat output	4.70 kW
El input	1.74 kW
COP	2.70

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	61 dB(A)

EN 14825	
	Medium temperature
η_s	126 %
Prated	4.60 kW
SCOP	3.22
Tbiv	-7 °C
TOL	-15 °C
Pdh Tj = -7°C	4.10 kW
COP Tj = -7°C	1.78
Cdh Tj = -7 °C	0.97
Pdh Tj = +2°C	2.50 kW
COP Tj = +2°C	3.29
Cdh Tj = +2 °C	0.97
Pdh Tj = +7°C	3.10 kW
COP Tj = +7°C	4.40
Cdh Tj = +7 °C	0.97

Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.71
Cdh Tj = +12 °C	0.97
Pdh Tj = Tbiv	4.10 kW
COP Tj = Tbiv	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.27
WTOL	55 °C
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	115 %
COP	2.72
Heating up time	2:38 h:min
Standby power input	36.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	278 l

Model: SUHZ-SW45VA(H) + EHST20D-*M*C

Configure model	
Model name	SUHZ-SW45VA(H) + 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	
	Medium temperature
Heat output	4.70 kW
El input	1.74 kW
COP	2.70

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	61 dB(A)

EN 14825	
	Medium temperature
η_s	126 %
Prated	4.60 kW
SCOP	3.22
Tbiv	-7 °C
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Pdh Tj = -7°C	4.10 kW
COP Tj = -7°C	1.78
Cdh Tj = -7 °C	0.97
Pdh Tj = +2°C	2.50 kW
COP Tj = +2°C	3.29
Cdh Tj = +2 °C	0.97
Pdh Tj = +7°C	3.10 kW
COP Tj = +7°C	4.40
Cdh Tj = +7 °C	0.97

Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.71
Cdh Tj = +12 °C	0.97
Pdh Tj = Tbiv	4.10 kW
COP Tj = Tbiv	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.27
WTOL	55 °C
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	115 %
COP	2.72
Heating up time	2:38 h:min
Standby power input	36.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	278 l

Model: SUHZ-SW45VA(H) + EHSD-M*C

Configure model	
Model name	SUHZ-SW45VA(H) + 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	4.10 kW	4.70 kW
El input	0.80 kW	1.74 kW
COP	5.10	2.70

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	170 %	126 %
Prated	5.00 kW	4.60 kW
SCOP	4.33	3.22
Tbiv	-7 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.40 kW	4.10 kW
COP Tj = -7°C	2.82	1.78
Cdh Tj = -7 °C	0.97	0.97
Pdh Tj = +2°C	2.70 kW	2.50 kW
COP Tj = +2°C	4.41	3.29
Cdh Tj = +2 °C	0.97	0.97
Pdh Tj = +7°C	3.30 kW	3.10 kW
COP Tj = +7°C	5.48	4.40
Cdh Tj = +7 °C	0.97	0.97

Pdh Tj = 12°C	2.50 kW	2.80 kW
COP Tj = 12°C	8.60	6.71
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	4.40 kW	4.10 kW
COP Tj = Tbiv	2.82	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.70 kW	2.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.21	1.27
WTOL	55 °C	55 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.20 kW	1.00 kW
Annual energy consumption Qhe	2284 kWh	2886 kWh

Model: SUHZ-SW45VA(H) + EHSD-*M*C

Configure model	
Model name	SUHZ-SW45VA(H) + 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	4.10 kW	4.70 kW
El input	0.80 kW	1.74 kW
COP	5.10	2.70

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	170 %	126 %
Prated	5.00 kW	4.60 kW
SCOP	4.33	3.22
Tbiv	-7 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.40 kW	4.10 kW
COP Tj = -7°C	2.82	1.78
Cdh Tj = -7 °C	0.97	0.97
Pdh Tj = +2°C	2.70 kW	2.50 kW
COP Tj = +2°C	4.41	3.29
Cdh Tj = +2 °C	0.97	0.97
Pdh Tj = +7°C	3.30 kW	3.10 kW
COP Tj = +7°C	5.48	4.40
Cdh Tj = +7 °C	0.97	0.97

Pdh Tj = 12°C	2.50 kW	2.80 kW
COP Tj = 12°C	8.60	6.71
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	4.40 kW	4.10 kW
COP Tj = Tbiv	2.82	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.70 kW	2.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.21	1.27
WTOL	55 °C	55 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.20 kW	1.00 kW
Annual energy consumption Qhe	2284 kWh	2886 kWh

Model: SUHZ-SW45VA(H) + EHST20D-*M*C2

Configure model	
Model name	SUHZ-SW45VA(H) + 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	
	Medium temperature
Heat output	4.70 kW
El input	1.74 kW
COP	2.70

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	61 dB(A)

EN 14825	
	Medium temperature
η_s	126 %
Prated	4.60 kW
SCOP	3.22
Tbiv	-7 °C
TOL	-15 °C
Pdh Tj = -7°C	4.10 kW
COP Tj = -7°C	1.78
Cdh Tj = -7 °C	0.97
Pdh Tj = +2°C	2.50 kW
COP Tj = +2°C	3.29
Cdh Tj = +2 °C	0.97
Pdh Tj = +7°C	3.10 kW
COP Tj = +7°C	4.40
Cdh Tj = +7 °C	0.97

Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.71
Cdh Tj = +12 °C	0.97
Pdh Tj = Tbiv	4.10 kW
COP Tj = Tbiv	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.27
WTOL	55 °C
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	159 %
COP	3.78
Heating up time	2:34 h:min
Reference hot water temperature	52.5 °C
Mixed water at 40°C	281 l
Standby power input	23.0 W

Model: SUHZ-SW45VA(H) + ERSD-*M*C

Configure model	
Model name	SUHZ-SW45VA(H) + 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	4.10 kW	4.70 kW
El input	0.80 kW	1.74 kW
COP	5.10	2.70

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	174 %	128 %
Prated	5.00 kW	4.60 kW
SCOP	4.43	3.28
Tbiv	-7 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.40 kW	4.10 kW
COP Tj = -7°C	2.82	1.78
Cdh Tj = -7 °C	0.97	0.97
Pdh Tj = +2°C	2.70 kW	2.50 kW
COP Tj = +2°C	4.41	3.29
Cdh Tj = +2 °C	0.97	0.97
Pdh Tj = +7°C	3.30 kW	3.10 kW
COP Tj = +7°C	5.48	4.40
Cdh Tj = +7 °C	0.97	0.97

Pdh Tj = 12°C	2.50 kW	2.80 kW
COP Tj = 12°C	8.60	6.71
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	4.40 kW	4.10 kW
COP Tj = Tbiv	2.82	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.70 kW	2.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.21	1.27
WTOL	55 °C	55 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.20 kW	1.00 kW
Annual energy consumption Qhe	2284 kWh	2886 kWh

Model: SUHZ-SW45VA(H) + ERST20D-M*C

Configure model	
Model name	SUHZ-SW45VA(H) + 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	
	Medium temperature
Heat output	4.70 kW
El input	1.74 kW
COP	2.70

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	61 dB(A)

EN 14825	
	Medium temperature
η_s	128 %
Prated	4.60 kW
SCOP	3.28
Tbiv	-7 °C
TOL	-15 °C
Pdh Tj = -7°C	4.10 kW
COP Tj = -7°C	1.78
Cdh Tj = -7 °C	0.97
Pdh Tj = +2°C	2.50 kW
COP Tj = +2°C	3.29
Cdh Tj = +2 °C	0.97
Pdh Tj = +7°C	3.10 kW
COP Tj = +7°C	4.40
Cdh Tj = +7 °C	0.97

Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.71
Cdh Tj = +12 °C	0.97
Pdh Tj = Tbiv	4.10 kW
COP Tj = Tbiv	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.27
WTOL	55 °C
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	115 %
COP	2.72
Heating up time	2:38 h:min
Standby power input	36.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	278 l

Model: SUHZ-SW45VA(H) + ERST20D-*M*C

Configure model	
Model name	SUHZ-SW45VA(H) + 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	
	Medium temperature
Heat output	4.70 kW
El input	1.74 kW
COP	2.70

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

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Pdh Tj = -7°C	4.10 kW
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Cdh Tj = -7 °C	0.97
Pdh Tj = +2°C	2.50 kW
COP Tj = +2°C	3.29
Cdh Tj = +2 °C	0.97
Pdh Tj = +7°C	3.10 kW
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Cdh Tj = +7 °C	0.97

Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.71
Cdh Tj = +12 °C	0.97
Pdh Tj = Tbiv	4.10 kW
COP Tj = Tbiv	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.27
WTOL	55 °C
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)

Average Climate

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Model: SUHZ-SW45VA(H) + ERST20D-*M*C2

Configure model	
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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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	Medium temperature
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Pdh Tj = -7°C	4.10 kW
COP Tj = -7°C	1.78
Cdh Tj = -7 °C	0.97
Pdh Tj = +2°C	2.50 kW
COP Tj = +2°C	3.29
Cdh Tj = +2 °C	0.97
Pdh Tj = +7°C	3.10 kW
COP Tj = +7°C	4.40
Cdh Tj = +7 °C	0.97

Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.71
Cdh Tj = +12 °C	0.97
Pdh Tj = Tbiv	4.10 kW
COP Tj = Tbiv	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.27
WTOL	55 °C
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

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Average Climate

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