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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
СОР	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



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 = $+7^{\circ}$ C	3.10 kW
COP Tj = +7°C	4.40
Cdh Tj = +7 °C	0.97
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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
РТО	10 W
PSB	10 W
PCK	o w
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	115 %	
СОР	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	



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
СОР	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	





EN 12102-1	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	61 dB(A)

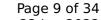
EN 14825		
	Medium temperature	
η_{s}	126 %	
Prated	4.60 kW	
SCOP	3.22	
Tbiv	-7 °C	
TOL	-15 °C	
Pdh Tj = -7°C	4.10 kW	
COP Tj = -7°C	1.78	
Cdh Tj = -7 °C	0.97	
Pdh Tj = +2°C	2.50 kW	
COP Tj = +2°C	3.29	
Cdh Tj = +2 °C	0.97	
Pdh Tj = $+7^{\circ}$ C	3.10 kW	
COP Tj = +7°C	4.40	
Cdh Tj = +7 °C	0.97	





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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
РТО	10 W
PSB	10 W
PCK	o w
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	115 %	
СОР	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	



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	
СОР	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	





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 = $+7^{\circ}$ C	3.30 kW	3.10 kW
COP Tj = +7°C	5.48	4.40
Cdh Tj = +7 °C	0.97	0.97



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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
РТО	10 W	10 W
PSB	10 W	10 W
PCK	o w	o 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	
СОР	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





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
РТО	10 W	10 W
PSB	10 W	10 W
PCK	o w	o 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	e 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
СОР	2.70

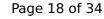
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	





EN 12102-1	
Medium temperature	
Sound power level indoor	40 dB(A)
Sound power level outdoor	61 dB(A)

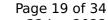
EN 14825		
	Medium temperature	
η_s	126 %	
Prated	4.60 kW	
SCOP	3.22	
Tbiv	-7 °C	
TOL	-15 °C	
Pdh Tj = -7°C	4.10 kW	
COP Tj = -7°C	1.78	
Cdh Tj = -7 °C	0.97	
Pdh Tj = +2°C	2.50 kW	
COP Tj = +2°C	3.29	
Cdh Tj = +2 °C	0.97	
Pdh Tj = $+7$ °C	3.10 kW	
$COP Tj = +7^{\circ}C$	4.40	
Cdh Tj = +7 °C	0.97	





	<u> </u>
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
РТО	10 W
PSB	10 W
PCK	o w
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	159 %	
СОР	3.78	
Heating up time	2:34 h:min	
Standby power input	23.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	281 I	



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
СОР	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	



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
РТО	10 W	10 W
PSB	10 W	10 W
PCK	o w	o 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
СОР	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



EN 1210	02-1
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	61 dB(A)

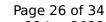
EN 14825	
	Medium temperature
η_{s}	128 %
Prated	4.60 kW
SCOP	3.28
Tbiv	-7 °C
TOL	-15 °C
Pdh Tj = -7°C	4.10 kW
COP Tj = -7°C	1.78
Cdh Tj = -7 °C	0.97
Pdh Tj = $+2$ °C	2.50 kW
COP Tj = +2°C	3.29
Cdh Tj = +2 °C	0.97
Pdh Tj = +7°C	3.10 kW
COP Tj = +7°C	4.40
Cdh Tj = +7 °C	0.97





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
РТО	10 W
PSB	10 W
PCK	o w
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
СОР	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



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
СОР	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



EN 1210	02-1
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	61 dB(A)

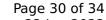
EN 14825	
	Medium temperature
η_{s}	128 %
Prated	4.60 kW
SCOP	3.28
Tbiv	-7 °C
TOL	-15 °C
Pdh Tj = -7°C	4.10 kW
COP Tj = -7°C	1.78
Cdh Tj = -7 °C	0.97
Pdh Tj = +2°C	2.50 kW
COP Tj = +2°C	3.29
Cdh Tj = +2 °C	0.97
Pdh Tj = +7°C	3.10 kW
COP Tj = +7°C	4.40
Cdh Tj = +7 °C	0.97





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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
РТО	10 W
PSB	10 W
PCK	o w
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
СОР	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



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

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



EN 12102-1	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	61 dB(A)

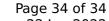
EN 14825	
	Medium temperature
η_{s}	128 %
Prated	4.60 kW
SCOP	3.28
Tbiv	-7 °C
TOL	-15 °C
Pdh Tj = -7°C	4.10 kW
COP Tj = -7°C	1.78
Cdh Tj = -7 °C	0.97
Pdh Tj = +2°C	2.50 kW
COP Tj = +2°C	3.29
Cdh Tj = +2 °C	0.97
Pdh Tj = +7°C	3.10 kW
$COP Tj = +7^{\circ}C$	4.40
Cdh Tj = +7 °C	0.97





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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
РТО	10 W
PSB	10 W
PCK	o w
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	159 %
СОР	3.78
Heating up time	2:34 h:min
Standby power input	23.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	281 I