Login

Summary of	Ecodan Eco Inverter 4-170D	Reg. No.	037-0005-19
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 4-170D		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.2 kg		
Certification Date	15.10.2019		
Testing basis	HP Keymark scheme rules rev. no. 6		

Model: SUZ-SWM40VA + EHST17D-*M*D

Configure model	
Model name	SUZ-SWM40VA + EHST17D-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
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 kW	4.5 kW
El input	0.77 kW	1.72 kW
COP	5.2	2.61

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	216 %	155 %
Prated	5.1 kW	4.6 kW
SCOP	5.46	3.94
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	5.1 kW	4.6 kW
COP Tj = +2°C	3.25	1.85
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.3 kW	3 kW
COP Tj = +7°C	5.28	3.51
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	1.9 kW	1.9 kW
COP Tj = 12°C	7.04	5.59
Cdh Tj = +12 °C	0.94	0.96

Pdh Tj = Tbiv	5.1 kW	4.6 kW
COP Tj = Tbiv	3.25	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.1 kW	4.6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.25	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.994
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 kW	0 kW
Annual energy consumption Qhe	1247 kWh	1560 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	180 %	129 %
Prated	5.1 kW	4.6 kW
SCOP	4.58	3.29
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.5 kW	4.1 kW
COP Tj = -7°C	2.88	2.02
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.7 kW	2.5 kW
COP Tj = +2°C	4.5	3.2
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	2.6 kW	2.6 kW
COP Tj = +7°C	6.5	4.64
Cdh Tj = +7 °C	0.96	0.97
Pdh Tj = 12°C	2.6 kW	2.3 kW
COP Tj = 12°C	8.97	6.57
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	4.5 kW	4.1 kW
COP Tj = Tbiv	2.88	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.36 kW	4.05 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.91
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.993
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	0.74 kW	0.55 kW
Annual energy consumption Qhe	2301 kWh	2888 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	167 %
COP	4
Heating up time	02:00 h:min
Standby power input	23 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	148 %
COP	3.55
Heating up time	02:25 h:min
Standby power input	26 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l

Model: SUZ-SWM40VA + ERST17D-*M*D

Configure model	
Model name	SUZ-SWM40VA + ERST17D-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
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 kW	4.5 kW
El input	0.77 kW	1.72 kW
COP	5.2	2.61

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

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	225 %	160 %
Prated	5.1 kW	4.6 kW
SCOP	5.7	4.08
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	5.1 kW	4.6 kW
COP Tj = +2°C	3.13	1.85
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.3 kW	3 kW
COP Tj = +7°C	5.18	3.45
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	1.9 kW	1.9 kW
COP Tj = 12°C	7.04	5.59
Cdh Tj = +12 °C	0.94	0.96

Pdh Tj = Tbiv	5.1 kW	4.6 kW
COP Tj = Tbiv	3.13	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.1 kW	4.6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.13	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
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 kW	0 kW
Annual energy consumption Qhe	1195 kWh	1506 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	187 %	132 %
Prated	5.1 kW	4.6 kW
SCOP	4.75	3.39
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.5 kW	4.1 kW
COP Tj = -7°C	2.92	2.04
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.7 kW	2.5 kW
COP Tj = +2°C	4.58	3.25
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	2.6 kW	2.6 kW
COP Tj = +7°C	6.5	4.64
Cdh Tj = +7 °C	0.96	0.97
Pdh Tj = 12°C	2.6 kW	2.3 kW
COP Tj = 12°C	8.97	6.57
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	4.5 kW	4.1 kW
COP Tj = Tbiv	2.92	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.36 kW	4.05 kW

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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	0.74 kW	0.55 kW
Annual energy consumption Qhe	2220 kWh	2806 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	167 %
COP	4
Heating up time	02:00 h:min
Standby power input	23 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l

Average Climate

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