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Login

Summary of	Ecodan Eco Inverter 4-170D	Reg. No.	037-0005-19	
Certificate Holder	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	
СОР	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	



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
РТО	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
$COP Tj = -7^{\circ}C$	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 = $+7^{\circ}$ C	2.6 kW	2.6 kW
$COPTj = +7^{\circ}C$	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
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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
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o 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)

EN 16147		
Declared load profile	L	
Efficiency ηDHW	167 %	
СОР	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 I	



Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	148 %	
СОР	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 I	



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	
СОР	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	



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 = $+7^{\circ}$ C	3.3 kW	3 kW	
$COP Tj = +7^{\circ}C$	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	



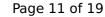


Pdh Tj = Tbiv	5.1 kW	4.6 kW
COP Tj = Tbiv	3.13	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.1 kW	4.6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.13	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o 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
$COP Tj = +2^{\circ}C$	4.58	3.25
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	2.6 kW	2.6 kW
$COP Tj = +7^{\circ}C$	6.5	4.64
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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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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
РТО	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)

EN 16147		
Declared load profile	L	
Efficiency ηDHW	167 %	
СОР	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	



Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	148 %	
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Heating up time	02:25 h:min	
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Mixed water at 40°C	236 I	



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

Configure model		
Model name SUZ-SWM40VA + ERST17D-*M*BD		
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		
СОР	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





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	Low temperature	Medium temperature
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EN 14825		
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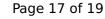


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Supplementary Heater: Type of energy input	Electricity	Electricity
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Annual energy consumption Qhe	1195 kWh	1506 kWh

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