This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	Ecodan Eco Inverter 4-300D	Reg. No.	037-0060-20
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)		
Name of testing laboratory	Universität Stuttgart, IGE, Prüfstelle HLK		
Subtype title	Ecodan Eco Inverter 4-300D		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	1.2 kg		
Certification Date	30.11.2020		
Testing basis	HP Keymark scheme rules rev. no. 6		

Model: SUZ-SWM40VA + EHST30D-M*D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.00 kW	4.50 kW
El input	0.77 kW	1.75 kW
COP	5.20	2.57
Indoor water flow rate	0.69 m³/h	0.48 m³/h

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	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	5.10 kW	4.60 kW
SCOP	4.58	3.29
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.50 kW	4.10 kW
COP Tj = -7°C	2.92	2.04
Cdh	0.99	0.99
Pdh Tj = +2°C	2.70 kW	2.50 kW
COP Tj = +2°C	4.58	3.25
Cdh	0.97	0.98
Pdh Tj = +7°C	2.60 kW	2.60 kW
COP Tj = +7°C	6.50	4.64
Cdh	0.96	0.97

Pdh Tj = 12°C	2.60 kW	2.30 kW
COP Tj = 12°C	8.97	6.57
Cdh	0.94	0.95
Pdh Tj = Tbiv	4.50 kW	4.10 kW
COP Tj = Tbiv	2.92	2.04
Pdh Tj = TOL	4.50 kW	4.10 kW
COP Tj = TOL	2.59	1.83
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	0.70 kW	0.50 kW
Annual energy consumption Qhe	2198 kWh	2788 kWh

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 %	129 %
Prated	5.10 kW	4.60 kW
SCOP	5.46	3.94
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	5.10 kW	4.60 kW
COP Tj = +2°C	3.13	1.85
Cdh	0.99	0.99
Pdh Tj = +7°C	3.30 kW	3.00 kW
COP Tj = +7°C	5.08	3.41
Cdh	0.98	0.98
Pdh Tj = 12°C	1.90 kW	1.90 kW
COP Tj = 12°C	7.04	5.59
Cdh	0.94	0.96
Pdh Tj = Tbiv	4.50 kW	4.10 kW
COP Tj = Tbiv	2.92	1.93
Pdh Tj = TOL	3.90 kW	3.90 kW
COP Tj = TOL	1.47	1.47
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	470.00 kW	393.00 kW
Annual energy consumption Qhe	1192 kWh	1503 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	128 %
COP	3.12
Heating up time	3:56 h:min
Standby power input	29.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Warmer Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	149 %
COP	3.62
Heating up time	3:15 h:min
Standby power input	27.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: SUZ-SWM40VA + EHST30D-*M*D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.00 kW	4.50 kW
El input	0.77 kW	1.75 kW
COP	5.20	2.57
Indoor water flow rate	0.69 m³/h	0.48 m³/h

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	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	5.10 kW	4.60 kW
SCOP	4.58	3.29
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.50 kW	4.10 kW
COP Tj = -7°C	2.92	2.04
Cdh	0.99	0.99
Pdh Tj = +2°C	2.70 kW	2.50 kW
COP Tj = +2°C	4.58	3.25
Cdh	0.97	0.98
Pdh Tj = +7°C	2.60 kW	2.60 kW
COP Tj = +7°C	6.50	4.64
Cdh	0.96	0.97

Pdh Tj = 12°C	2.60 kW	2.30 kW
COP Tj = 12°C	8.97	6.57
Cdh	0.94	0.95
Pdh Tj = Tbiv	4.50 kW	4.10 kW
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Pdh Tj = TOL	4.50 kW	4.10 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	0.70 kW	0.50 kW
Annual energy consumption Qhe	2198 kWh	2788 kWh

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 %	129 %
Prated	5.10 kW	4.60 kW
SCOP	5.46	3.94
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	5.10 kW	4.60 kW
COP Tj = +2°C	3.13	1.85
Cdh	0.99	0.99
Pdh Tj = +7°C	3.30 kW	3.00 kW
COP Tj = +7°C	5.08	3.41
Cdh	0.98	0.98
Pdh Tj = 12°C	1.90 kW	1.90 kW
COP Tj = 12°C	7.04	5.59
Cdh	0.94	0.96
Pdh Tj = Tbiv	4.50 kW	4.10 kW
COP Tj = Tbiv	2.92	1.93
Pdh Tj = TOL	3.90 kW	3.90 kW
COP Tj = TOL	1.47	1.47
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	470.00 kW	393.00 kW
Annual energy consumption Qhe	1192 kWh	1503 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	128 %
COP	3.12
Heating up time	3:56 h:min
Standby power input	29.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Warmer Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	149 %
COP	3.62
Heating up time	3:15 h:min
Standby power input	27.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: SUZ-SWM40VA + ERST30D-*M*D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.00 kW	4.50 kW
El input	0.77 kW	1.75 kW
COP	5.20	2.57
Indoor water flow rate	0.69 m³/h	0.48 m³/h

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	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	5.10 kW	4.60 kW
SCOP	4.75	3.39
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.50 kW	4.10 kW
COP Tj = -7°C	2.92	2.04
Cdh	0.99	0.99
Pdh Tj = +2°C	2.70 kW	2.50 kW
COP Tj = +2°C	4.58	3.25
Cdh	0.97	0.98
Pdh Tj = +7°C	2.60 kW	2.60 kW
COP Tj = +7°C	6.50	4.64
Cdh	0.96	0.97

Pdh Tj = 12°C	2.60 kW	2.30 kW
COP Tj = 12°C	8.97	6.57
Cdh	0.94	0.95
Pdh Tj = Tbiv	4.50 kW	4.10 kW
COP Tj = Tbiv	2.92	2.04
Pdh Tj = TOL	4.50 kW	4.10 kW
COP Tj = TOL	2.59	1.83
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	0.70 kW	0.50 kW
Annual energy consumption Qhe	2198 kWh	2788 kWh

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 %	132 %
Prated	5.10 kW	4.60 kW
SCOP	5.70	4.08
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	5.10 kW	4.60 kW
COP Tj = +2°C	3.13	1.85
Cdh	0.99	0.99
Pdh Tj = +7°C	3.30 kW	3.00 kW
COP Tj = +7°C	5.08	3.41
Cdh	0.98	0.98
Pdh Tj = 12°C	1.90 kW	1.90 kW
COP Tj = 12°C	7.04	5.59
Cdh	0.94	0.96
Pdh Tj = Tbiv	4.50 kW	4.10 kW
COP Tj = Tbiv	2.92	1.93
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WTOL	60 °C	60 °C

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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	470.00 kW	393.00 kW
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