

Subtype Ecodan Power Inverter (TR) 14 + 300D AA

Certificate Holder	Mitsubishi Electric Air Conditioning Systems Europe LTD
Address	Nettlehill Road, Houston Industrial Estate
ZIP	EH54 5EQ
City	Livingston
Country	GB
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)
Subtype title	Ecodan Power Inverter (TR) 14 + 300D AA
Registration number	037-0120-23
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.8 kg
Certification Date	26.04.2023
Testing basis	HP Keymark scheme rules rev. no. 9
Testing laboratory	SZU Brno, CZ

Model PUZ-SWM140VAA + EHST30D-*M*D

Model name	PUZ-SWM140VAA + EHST30D-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency η_{DHW}	114 %
COP	2.76
Heating up time	2:40 h:min
Standby power input	50 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12 kW	7 kW
El input	2.53 kW	2.59 kW
COP	4.75	2.7

EN 14511-2 | Cooling

El input	+7°C/+12°C kW	+18°C/+23°C kW
Cooling capacity		
EER		

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	175 %	134 %
P _{rated}	14 kW	14 kW
SCOP	4.46	3.43
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh Tj = -7°C}	12.4 kW	12.4 kW
COP T _j = -7°C	2.7	1.98
C _{dh Tj = -7 °C}	0.997	0.998
P _{dh Tj = +2°C}	7.6 kW	7.5 kW
COP T _j = +2°C	4.51	3.4
C _{dh Tj = +2 °C}	0.991	0.993
P _{dh Tj = +7°C}	6.4 kW	6.3 kW
COP T _j = +7°C	5.91	4.61
C _{dh Tj = +7 °C}	0.986	0.989
P _{dh Tj = 12°C}	4.1 kW	3.9 kW
COP T _j = 12°C	7.03	6.28
C _{dh Tj = +12 °C}	0.974	0.976
P _{dh Tj = T_{biv}}	12.4 kW	12.4 kW
COP T _j = T _{biv}	2.7	1.98
P _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	11 kW	11 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.4	1.75
C _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	0.997	0.998
WTOL	60 °C	60 °C
P _{off}	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	3 kW	3 kW
Annual energy consumption Q _{he}	6483 kWh	8438 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	kW	kW
SEER		
P _{dc Tj = 35°C}	kW	kW
EER T _j = 35°C		
C _{dc Tj = 35 °C}		

Pdc Tj = 30°C	kW	kW
EER Tj = 30°C		
Cdc Tj = 30 °C		
Pdc Tj = 25°C	kW	kW
EER Tj = 25°C		
Cdc Tj = 25 °C		
Pdc Tj = 20°C	kW	kW
EER Tj = 20°C		
Cdc Tj = 20 °C		
Poff	W	W
PTO	W	W
PSB	W	W
PCK	W	W
Annual energy consumption Qce	kWh	kWh

Model PUZ-SWM140YAA + EHST30D-*M*D

Model name	PUZ-SWM140YAA + EHST30D-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency η_{DHW}	114 %
COP	2.76
Heating up time	2:40 h:min
Standby power input	50 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12 kW	7 kW
El input	2.53 kW	2.59 kW
COP	4.75	2.7

EN 14511-2 | Cooling

El input	+7°C/+12°C kW	+18°C/+23°C kW
Cooling capacity		
EER		

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	175 %	134 %
P _{rated}	14 kW	14 kW
SCOP	4.44	3.41
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh Tj = -7°C}	12.4 kW	12.4 kW
COP T _j = -7°C	2.7	1.98
C _{dh Tj = -7 °C}	0.995	0.996
P _{dh Tj = +2°C}	7.6 kW	7.5 kW
COP T _j = +2°C	4.51	3.4
C _{dh Tj = +2 °C}	0.987	0.99
P _{dh Tj = +7°C}	6.4 kW	6.3 kW
COP T _j = +7°C	5.91	4.61
C _{dh Tj = +7 °C}	0.98	0.984
P _{dh Tj = 12°C}	4.1 kW	3.9 kW
COP T _j = 12°C	7.03	6.28
C _{dh Tj = +12 °C}	0.962	0.965
P _{dh Tj = T_{biv}}	12.4 kW	12.4 kW
COP T _j = T _{biv}	2.7	1.98
P _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	11 kW	11 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.4	1.75
C _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	0.995	0.997
WTOL	60 °C	60 °C
P _{off}	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3 kW	3 kW
Annual energy consumption Q _{he}	6517 kWh	8473 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	kW	kW
SEER		
P _{dc Tj = 35°C}	kW	kW
EER T _j = 35°C		
C _{dc Tj = 35 °C}		

Pdc Tj = 30°C	kW	kW
EER Tj = 30°C		
Cdc Tj = 30 °C		
Pdc Tj = 25°C	kW	kW
EER Tj = 25°C		
Cdc Tj = 25 °C		
Pdc Tj = 20°C	kW	kW
EER Tj = 20°C		
Cdc Tj = 20 °C		
Poff	W	W
PTO	W	W
PSB	W	W
PCK	W	W
Annual energy consumption Qce	kWh	kWh

Model PUZ-SWM140VAA + ERST30D-*M*D

Model name	PUZ-SWM140VAA + ERST30D-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency η_{DHW}	114 %
COP	2.76
Heating up time	2:40 h:min
Standby power input	50 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12 kW	7 kW
El input	2.53 kW	2.59 kW
COP	4.75	2.7

EN 14511-2 | Cooling

El input	+7°C/+12°C 4.81 kW	+18°C/+23°C 3.87 kW
Cooling capacity	12.5	14
EER	2.6	3.62

EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
η_S	177 %	135 %
P _{rated}	14 kW	14 kW
SCOP	4.5	3.45
T _{biv}	-7 °C	-7 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j} = -7°C	12.4 kW	12.4 kW
COP T _j = -7°C	2.7	1.98
C _{dh T_j} = -7 °C	0.997	0.998
P _{dh T_j} = +2°C	7.6 kW	7.5 kW
COP T _j = +2°C	4.51	3.4
C _{dh T_j} = +2 °C	0.991	0.993
P _{dh T_j} = +7°C	6.4 kW	6.3 kW
COP T _j = +7°C	5.91	4.61
C _{dh T_j} = +7 °C	0.986	0.989
P _{dh T_j} = 12°C	4.1 kW	3.9 kW
COP T _j = 12°C	7.03	6.28
C _{dh T_j} = +12 °C	0.974	0.976
P _{dh T_j} = T _{biv}	12.4 kW	12.4 kW
COP T _j = T _{biv}	2.7	1.98
P _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	11 kW	11 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.4	1.75
C _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	0.997	0.998
WT _{OL}	60 °C	60 °C
P _{off}	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	3 kW	3 kW
Annual energy consumption Q _{he}	6428 kWh	8383 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	12.5 kW	14 kW
SEER	3.6	4.88
P _{dc T_j} = 35°C	12.5 kW	14 kW
EER T _j = 35°C	2.6	3.62

Cdc Tj = 35 °C	0.997	0.996
Pdc Tj = 30°C	9.21 kW	10.32 kW
EER Tj = 30°C	3.47	4.93
Cdc Tj = 30 °C	0.994	0.993
Pdc Tj = 25°C	6 kW	6.63 kW
EER Tj = 25°C	4.2	5.1
Cdc Tj = 25 °C	0.99	0.988
Pdc Tj = 20°C	3.7 kW	4.7 kW
EER Tj = 20°C	3.49	5.4
Cdc Tj = 20 °C	0.986	0.983
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	2081 kWh	1720 kWh

Model PUZ-SWM140YAA + ERST30D-*M*D

Model name	PUZ-SWM140YAA + ERST30D-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency η_{DHW}	114 %
COP	2.76
Heating up time	2:40 h:min
Standby power input	50 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12 kW	7 kW
El input	2.53 kW	2.59 kW
COP	4.75	2.7

EN 14511-2 | Cooling

El input	+7°C/+12°C 4.81 kW	+18°C/+23°C 3.87 kW
Cooling capacity	12.5	14
EER	2.6	3.62

EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
η_S	177 %	135 %
P _{rated}	14 kW	14 kW
SCOP	4.49	3.45
T _{biv}	-7 °C	-7 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j} = -7°C	12.4 kW	12.4 kW
COP T _j = -7°C	2.7	1.98
C _{dh T_j} = -7 °C	0.995	0.996
P _{dh T_j} = +2°C	7.6 kW	7.5 kW
COP T _j = +2°C	4.51	3.4
C _{dh T_j} = +2 °C	0.987	0.99
P _{dh T_j} = +7°C	6.4 kW	6.3 kW
COP T _j = +7°C	5.91	4.61
C _{dh T_j} = +7 °C	0.98	0.984
P _{dh T_j} = 12°C	4.1 kW	3.9 kW
COP T _j = 12°C	7.03	6.28
C _{dh T_j} = +12 °C	0.962	0.965
P _{dh T_j} = T _{biv}	12.4 kW	12.4 kW
COP T _j = T _{biv}	2.7	1.98
P _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	11 kW	11 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.4	1.75
C _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	0.995	0.997
WT _{OL}	60 °C	60 °C
P _{off}	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3 kW	3 kW
Annual energy consumption Q _{he}	6437 kWh	8392 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	12.5 kW	14 kW
SEER	3.58	4.84
P _{dc T_j} = 35°C	12.5 kW	14 kW
EER T _j = 35°C	2.6	3.62

Cdc Tj = 35 °C	0.995	0.994
Pdc Tj = 30°C	9.21 kW	10.32 kW
EER Tj = 30°C	3.47	4.93
Cdc Tj = 30 °C	0.992	0.989
Pdc Tj = 25°C	6 kW	6.63 kW
EER Tj = 25°C	4.2	5.1
Cdc Tj = 25 °C	0.985	0.983
Pdc Tj = 20°C	3.7 kW	4.7 kW
EER Tj = 20°C	3.49	5.4
Cdc Tj = 20 °C	0.979	0.975
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Annual energy consumption Qce	2097 kWh	1736 kWh