

**Subtype Ecodan Power Inverter 10-300D 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 10-300D AA
Registration number	037-0015-20
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	4.2 kg
Certification Date	14.02.2020
Testing basis	HP Keymark scheme rules rev. no. 6

**Model PUHZ-SW100VAA + EHST30C-M\*D**

Model name	PUHZ-SW100VAA + EHST30C-M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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 $\eta_{DHW}$	120 %
COP	2.90
Heating up time	03:41 h:min
Standby power input	41.0 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	11.20 kW	11.20 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	167 %	130 %
Prated	10.60 kW	10.00 kW

SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.55 kW	9.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.80	1.80
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	1.60 kW	1.40 kW
Annual energy consumption Qhe	5026 kWh	6089 kWh

**Model PUHZ-SW100VAA + EHST30C-\*M\*D**

Model name	PUHZ-SW100VAA + EHST30C-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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 $\eta_{DHW}$	120 %
COP	2.90
Heating up time	03:41 h:min
Standby power input	41.0 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	11.20 kW	11.20 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	167 %	130 %
Prated	10.60 kW	10.00 kW

SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.55 kW	9.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.80	1.80
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	1.60 kW	1.40 kW
Annual energy consumption Qhe	5026 kWh	6089 kWh

**Model PUHZ-SW100VAA + ERST30C-\*M\*D**

Model name	PUHZ-SW100VAA + ERST30C-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
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 $\eta_{DHW}$	120 %
COP	2.90
Heating up time	03:41 h:min
Standby power input	41.0 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	11.20 kW	11.20 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_S$	170 %	132 %

Prated	10.60 kW	10.00 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.55 kW	9.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.80	1.80
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	1.60 kW	1.40 kW
Annual energy consumption Qhe	5026 kWh	6089 kWh

**Model PUHZ-SW100YAA + EHST30C-M\*D**

Model name	PUHZ-SW100YAA + EHST30C-M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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 $\eta_{DHW}$	120 %
COP	2.90
Heating up time	03:41 h:min
Standby power input	41.0 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	11.20 kW	11.20 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	165 %	129 %
Prated	10.60 kW	10.00 kW

SCOP	4.21	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.55 kW	9.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.80	1.80
WTOL	60 °C	60 °C
Poff	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	1.60 kW	1.40 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh

**Model PUHZ-SW100YAA + EHST30C-\*M\*D**

Model name	PUHZ-SW100YAA + EHST30C-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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 $\eta_{DHW}$	120 %
COP	2.90
Heating up time	03:41 h:min
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Starting and operating test	passed

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	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
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COP	4.46	2.71

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	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	165 %	129 %
Prated	10.60 kW	10.00 kW

SCOP	4.21	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
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Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.55 kW	9.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.80	1.80
WTOL	60 °C	60 °C
Poff	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	1.60 kW	1.40 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh

**Model PUHZ-SW100YAA + ERST30C-\*M\*D**

Model name	PUHZ-SW100YAA + ERST30C-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
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 $\eta_{DHW}$	120 %
COP	2.90
Heating up time	03:41 h:min
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Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

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Complete power supply failure	passed
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Starting and operating test	passed

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	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_S$	169 %	132 %

Prated	10.60 kW	10.00 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.40 kW	8.90 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	5.70 kW	5.40 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.50 kW	4.70 kW
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Pdh Tj = 12°C	4.30 kW	5.30 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.40 kW	8.90 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.55 kW	9.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.80	1.80
WTOL	60 °C	60 °C
Poff	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	1.60 kW	1.40 kW
Annual energy consumption Qhe	5035 kWh	6101 kWh