

English

Single View for Model

SUBTYPE

Ecodan Power Inverter (TR) 6/8/10 + 200F AA

Heat Pump Type: Outdoor Air/Water

APPLICANT

Mitsubishi Electric Air Conditioning Systems Europe LTD
 Nettlehill Road, Houston Industrial Estate
 EH54 5EQ Livingston
 United Kingdom

CERTIFICATION BODY

SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)
 Hudcova 424/56b
 621 00 Brno
 Czech Republic

PUZ-SWM100YAA + ERST20F-*M*E

Configure model

| | |
|-------------------------------------|------------------------------|
| Model name | PUZ-SWM100YAA + ERST20F-*M*E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C |

General Data

| | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |
|--------------|-------------|

Heating

EN 14511-2

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 8 kW | 7 kW |
| El input | 1.59 kW | 2.59 kW |
| COP | 5.02 | 2.7 |

EN 14511-4

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

Cooling

| EN 14511-2 | | | |
|-------------------------------|-------------------|--------------------|--|
| | +7°C/+12°C | +18°C/+23°C | |
| El input | 3 kW | 2.22 kW | |
| Cooling capacity | 9 | 10 | |
| EER | 3 | 4.5 | |
| EN 14825 | | | |
| | +7°C/+12°C | +18°C/+23°C | |
| Pdesignc | 9 kW | 10 kW | |
| SEER | 3.93 | 5.64 | |
| Pdc Tj = 35°C | 9 kW | 10 kW | |
| EER Tj = 35°C | 3 | 4.5 | |
| Cdc Tj = 35 °C | 0.993 | 0.99 | |
| Pdc Tj = 30°C | 6.63 kW | 7.37 kW | |
| EER Tj = 30°C | 3.82 | 5.68 | |
| Cdc Tj = 30 °C | 0.987 | 0.983 | |
| Pdc Tj = 25°C | 4.26 kW | 4.74 kW | |
| EER Tj = 25°C | 4.43 | 6.05 | |
| Cdc Tj = 25 °C | 0.977 | 0.972 | |
| Pdc Tj = 20°C | 2.5 kW | 3.5 kW | |
| EER Tj = 20°C | 4.23 | 6.55 | |
| Cdc Tj = 20 °C | 0.963 | 0.959 | |
| Poff | 22 W | 22 W | |
| PTO | 22 W | 22 W | |
| PSB | 22 W | 22 W | |
| PCK | 0 W | 0 W | |
| Annual energy consumption Qce | 1372 kWh | 1064 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 % | 134 % | |

| | | |
|---|-------------|-------------|
| Prated | 10 kW | 10 kW |
| SCOP | 4.59 | 3.42 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.8 kW | 8.8 kW |
| COP Tj = -7°C | 3.05 | 2.15 |
| Cdh Tj = -7 °C | 0.992 | 0.995 |
| Pdh Tj = +2°C | 5.4 kW | 5.4 kW |
| COP Tj = +2°C | 4.61 | 3.35 |
| Cdh Tj = +2 °C | 0.981 | 0.986 |
| Pdh Tj = +7°C | 5.2 kW | 4.8 kW |
| COP Tj = +7°C | 5.7 | 4.39 |
| Cdh Tj = +7 °C | 0.976 | 0.98 |
| Pdh Tj = 12°C | 3.2 kW | 2.9 kW |
| COP Tj = 12°C | 6.61 | 5.99 |
| Cdh Tj = +12 °C | 0.955 | 0.955 |
| Pdh Tj = Tbiv | 8.8 kW | 8.8 kW |
| COP Tj = Tbiv | 3.05 | 2.15 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9 kW | 8.5 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.4 | 1.7 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.994 | 0.996 |
| WTOL | 70 °C | 70 °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 kW | 1.5 kW |
| Annual energy consumption Qhe | 4505 kWh | 6042 kWh |

Domestic Hot Water (DHW)

Average Climate

EN 16147

| | |
|-------------------------|-------|
| Declared load profile | L |
| Efficiency η_{DHW} | 137 % |
| COP | 3.25 |

| | |
|---------------------------------|------------|
| Heating up time | 1:55 h:min |
| Standby power input | 42.1 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 278 l |

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