

Subtype Ecodan Power+ CAHV

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|---------------------|---|
| 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+ CAHV |
| Registration number | 037-0113-23 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R454C |
| Mass of Refrigerant | 9 kg |
| Certification Date | 30.06.2023 |
| Testing basis | HP Keymark scheme rules rev. no. 10 |
| Testing laboratory | SZU Brno, CZ |

Model CAHV-R450YA-HPB(-BS)

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|-------------------------------------|-----------------------|
| Model name | CAHV-R450YA-HPB(-BS) |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate zone (for heating) | n/a |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

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

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

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

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 35.00 kW | 35.00 kW |
| El input | 10.20 kW | 14.08 kW |
| COP | 3.43 | 2.48 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 76 dB(A) | 76 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 140 % | 127 % |
| Prated | 26.90 kW | 27.00 kW |
| SCOP | 3.57 | 3.24 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 23.80 kW | 23.80 kW |
| COP Tj = -7°C | 2.60 | 2.08 |
| Cdh Tj = -7 °C | 0.900 | 0.900 |
| Pdh Tj = +2°C | 15.30 kW | 14.70 kW |
| COP Tj = +2°C | 3.33 | 3.22 |
| Cdh Tj = +2 °C | 0.900 | 0.900 |
| Pdh Tj = +7°C | 9.30 kW | 13.90 kW |
| COP Tj = +7°C | 5.20 | 4.60 |

| | | |
|---|-------------|-------------|
| Cdh Tj = +7 °C | 0.900 | 0.900 |
| Pdh Tj = 12°C | 8.70 kW | 13.70 kW |
| COP Tj = 12°C | 5.05 | 5.81 |
| Cdh Tj = +12 °C | 0.900 | 0.900 |
| Pdh Tj = Tbiv | 23.80 kW | 23.80 kW |
| COP Tj = Tbiv | 2.60 | 2.08 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 26.90 kW | 27.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.21 | 1.72 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | | |
| WTOL | 70 °C | 70 °C |
| Poff | 14 W | 14 W |
| PTO | 14 W | 14 W |
| PSB | 14 W | 14 W |
| PCK | 65 W | 65 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 15556 kWh | 17161 kWh |