

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

| | | | |
|----------------------------|--|----------|-------------|
| Summary of | 24. Yutaki M 6.0HP (tri) | Reg. No. | 041-K002-24 |
| Certificate Holder | | | |
| Name | Johnson Controls-Hitachi AirConditioning Spain | | |
| Address | Ronda Shimizu, 1. Pol. Ind. Can Torrella | Zip | 08233 |
| City | Vacarisses, Barcelona | Country | Spain |
| Certification Body | BRE Energy & Communications Division | | |
| Name of testing laboratory | CEIS | | |
| Subtype title | 24. Yutaki M 6.0HP (tri) | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R410a | | |
| Mass Of Refrigerant | 3.1 kg | | |

Model: RASM-6NE - Heating Only

General Data

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

Heating

EN 14511-4

| | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

EN 14511-2

| | Low temperature | Medium temperature |
|------------------------|------------------------|------------------------|
| Heat output | 16.00 kW | 16.00 kW |
| El input | 3.50 kW | 6.40 kW |
| COP | 4.57 | 2.50 |
| Indoor water flow rate | 2.74 m ³ /h | 1.71 m ³ /h |

Average Climate

EN 14825

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| | Low temperature | Medium temperature |
|---------------|------------------------|---------------------------|
| η_s | 152 % | 125 % |
| Prated | 16.00 kW | 14.00 kW |
| SCOP | 3.88 | 3.20 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 13.80 kW | 11.20 kW |
| COP Tj = -7°C | 2.40 | 1.60 |
| Pdh Tj = +2°C | 8.40 kW | 6.82 kW |
| COP Tj = +2°C | 3.90 | 3.35 |
| Pdh Tj = +7°C | 5.40 kW | 4.38 kW |
| COP Tj = +7°C | 5.00 | 4.35 |
| Pdh Tj = 12°C | 3.50 kW | 3.60 kW |
| COP Tj = 12°C | 6.00 | 5.50 |
| Pdh Tj = Tbiv | 13.80 kW | 11.20 kW |
| COP Tj = Tbiv | 2.40 | 1.60 |
| Pdh Tj = TOL | 14.10 kW | 11.70 kW |
| COP Tj = TOL | 2.30 | 1.55 |
| Cdh | 0.90 | 0.90 |
| WTOL | 55 °C | 55 °C |
| Poff | 19 W | 19 W |

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| | | |
|--|-------------|-------------|
| PTO | 0 W | 0 W |
| PSB | 19 W | 19 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 1.90 kW | 2.30 kW |
| Annual energy consumption Q _{he} | 8309 kWh | 8192 kWh |

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level outdoor | 69 dB(A) | 69 dB(A) |

Model: RASM-6NE - with cooling kit

General Data

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

Heating

EN 14511-4

| | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

EN 14511-2

| | Low temperature | Medium temperature |
|------------------------|------------------------|------------------------|
| Heat output | 16.00 kW | 16.00 kW |
| El input | 3.50 kW | 6.40 kW |
| COP | 4.57 | 2.50 |
| Indoor water flow rate | 2.74 m ³ /h | 1.71 m ³ /h |

Average Climate

EN 14825

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

| | Low temperature | Medium temperature |
|---------------|------------------------|---------------------------|
| η_s | 153 % | 126 % |
| Prated | 16.00 kW | 14.00 kW |
| SCOP | 3.90 | 3.23 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 13.80 kW | 11.20 kW |
| COP Tj = -7°C | 2.40 | 1.60 |
| Pdh Tj = +2°C | 8.40 kW | 6.82 kW |
| COP Tj = +2°C | 3.90 | 3.35 |
| Pdh Tj = +7°C | 5.40 kW | 4.38 kW |
| COP Tj = +7°C | 5.00 | 4.35 |
| Pdh Tj = 12°C | 3.50 kW | 3.60 kW |
| COP Tj = 12°C | 6.00 | 5.50 |
| Pdh Tj = Tbiv | 13.80 kW | 11.20 kW |
| COP Tj = Tbiv | 2.40 | 1.60 |
| Pdh Tj = TOL | 14.10 kW | 11.70 kW |
| COP Tj = TOL | 2.30 | 1.55 |
| Cdh | 0.90 | 0.90 |
| WTOL | 55 °C | 55 °C |
| Poff | 19 W | 19 W |

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

| | | |
|--|-------------|-------------|
| PTO | 0 W | 0 W |
| PSB | 19 W | 19 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 1.90 kW | 2.30 kW |
| Annual energy consumption Q _{he} | 8239 kWh | 8122 kWh |

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level outdoor | 69 dB(A) | 69 dB(A) |