

This information was generated by the HP KEYMARK database on 7 Jul 2022

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| | | | |
|---------------------|--|----------|-------------|
| Summary of | 20. Yutaki M 5.0HP (mono) | Reg. No. | 041-K002-20 |
| 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 Global Limited | | |
| Subtype title | 20. Yutaki M 5.0HP (mono) | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 3.1 kg | | |

Model: RASM-5VNE - Heating Only

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | RASM-5VNE - Heating Only |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate Zone | n/a |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 1x230V 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 | 14.00 kW | 14.00 kW |
| El input | 2.97 kW | 5.00 kW |
| COP | 4.71 | 2.80 |

Average Climate

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EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 175 % | 133 % |
| Prated | 14.00 kW | 12.00 kW |
| SCOP | 4.45 | 3.40 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.00 kW | 10.25 kW |
| COP Tj = -7°C | 2.55 | 1.70 |
| Pdh Tj = +2°C | 7.30 kW | 6.24 kW |
| COP Tj = +2°C | 4.70 | 3.60 |
| Pdh Tj = +7°C | 4.70 kW | 4.01 kW |
| COP Tj = +7°C | 5.70 | 4.60 |
| Pdh Tj = 12°C | 3.50 kW | 3.50 kW |
| COP Tj = 12°C | 6.00 | 5.50 |
| Pdh Tj = Tbiv | 12.00 kW | 10.25 kW |
| COP Tj = Tbiv | 2.55 | 1.70 |

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| | | |
|---|-------------|-------------|
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 12.10 kW | 10.50 kW |
| $COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$ | 2.50 | 1.70 |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.90 | 0.90 |
| WTOL | 55 °C | 55 °C |
| Poff | 13 W | 13 W |
| PTO | 0 W | 0 W |
| PSB | 13 W | 13 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.90 kW | 1.50 kW |
| Annual energy consumption Q_{he} | 6313 kWh | 7042 kWh |

Model: RASM-5VNE - with cooling kit

| Configure model | |
|-------------------------------------|------------------------------|
| Model name | RASM-5VNE - with cooling kit |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate Zone | n/a |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 1x230V 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 | 14.00 kW | 14.00 kW |
| El input | 2.97 kW | 5.00 kW |
| COP | 4.71 | 2.80 |

Average Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 176 % | 134 % |
| Prated | 14.00 kW | 12.00 kW |
| SCOP | 4.48 | 3.43 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.00 kW | 10.25 kW |
| COP Tj = -7°C | 2.55 | 1.70 |
| Pdh Tj = +2°C | 7.30 kW | 6.24 kW |
| COP Tj = +2°C | 4.70 | 3.60 |
| Pdh Tj = +7°C | 4.70 kW | 4.01 kW |
| COP Tj = +7°C | 5.70 | 4.60 |
| Pdh Tj = 12°C | 3.50 kW | 3.50 kW |
| COP Tj = 12°C | 6.00 | 5.50 |
| Pdh Tj = Tbiv | 12.00 kW | 10.25 kW |
| COP Tj = Tbiv | 2.55 | 1.70 |

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| | | |
|---|-------------|-------------|
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 12.10 kW | 10.50 kW |
| $COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$ | 2.50 | 1.70 |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.90 | 0.90 |
| WTOL | 55 °C | 55 °C |
| Poff | 13 W | 13 W |
| PTO | 0 W | 0 W |
| PSB | 13 W | 13 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.90 kW | 1.50 kW |
| Annual energy consumption Q_{he} | 6265 kWh | 6994 kWh |