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

| Summary of | 04. Yutaki S 2.5HP R32 | Reg. No. | 041-K002-32 |
|---|---|---|---|
| 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 | 04. Yutaki S 2.5HP R32 | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R32 | | |
| Mass Of Refrigerant | 1.3 kg | | |
| Certification Date | 02.08.2019 | | |

# Model: 01. RAS-2.5WHVRP RWM-2.5NRE - Heating Only

| General Data | |
|---|---|
| Power supply | 1x230V 50Hz |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 6.00 kW | 6.00 kW |
| El input | 1.25 kW | 2.11 kW |
| COP | 4.80 | 2.85 |
| Indoor water flow rate | 1.03 m³/h | 0.64 m³/h |

| EN 14511-4 | |
|---|---|
| | |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Starting and operating test | passed |

## Average Climate

## EN 12102-1

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 37 dB(A) | 37 dB(A) |
| Sound power level outdoor | 63 dB(A) | 63 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 177 % | 127 % |
| Prated | 6.00 kW | 5.00 kW |
| SCOP | 4.50 | 3.25 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.10 kW | 4.42 kW |
| COP Tj = -7°C | 2.70 | 1.85 |
| Cdh | 1.00 | 1.00 |
| Pdh Tj = +2°C | 3.10 kW | 2.69 kW |
| COP Tj = +2°C | 4.60 | 3.30 |
| Cdh | 1.00 | 1.00 |
| Pdh Tj = +7°C | 3.00 kW | 2.43 kW |
| COP Tj = +7°C | 6.20 | 4.60 |
| Cdh | 0.90 | 0.90 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 3.05 kW | 2.80 kW |
| COP Tj = 12°C | 8.35 | 6.35 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 5.10 kW | 4.42 kW |
| COP Tj = Tbiv | 2.70 | 1.85 |
| Pdh Tj = TOL | 5.30 kW | 3.90 kW |
| COP Tj = TOL | 2.50 | 1.70 |
| WTOL | 55 °C | 55 °C |
| Poff | 12 W | 12 W |
| PTO | 0 W | 0 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 0.25 kW | 1.10 kW |
| Annual energy consumption Qhe | 2652 kWh | 3186 kWh |

# Model: 02. RAS-2.5WHVRP RWM-2.5NRE - with cooling kit

| General Data | |
|---|---|
| Power supply | 1x230V 50Hz |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 6.00 kW | 6.00 kW |
| El input | 1.25 kW | 2.11 kW |
| COP | 4.80 | 2.85 |
| Indoor water flow rate | 1.03 m³/h | 0.64 m³/h |

| EN 14511-4 | |
|---|---|
| | |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Starting and operating test | passed |

## Average Climate

## EN 12102-1

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 37 dB(A) | 37 dB(A) |
| Sound power level outdoor | 63 dB(A) | 63 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 180 % | 128 % |
| Prated | 6.00 kW | 5.00 kW |
| SCOP | 4.58 | 3.28 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.10 kW | 4.42 kW |
| COP Tj = -7°C | 2.70 | 1.85 |
| Cdh | 1.00 | 1.00 |
| Pdh Tj = +2°C | 3.10 kW | 2.69 kW |
| COP Tj = +2°C | 4.60 | 3.30 |
| Cdh | 1.00 | 1.00 |
| Pdh Tj = +7°C | 3.00 kW | 2.43 kW |
| COP Tj = +7°C | 6.20 | 4.60 |
| Cdh | 0.90 | 0.90 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 3.05 kW | 2.80 kW |
| COP Tj = 12°C | 8.35 | 6.35 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 5.10 kW | 4.42 kW |
| COP Tj = Tbiv | 2.70 | 1.85 |
| Pdh Tj = TOL | 5.30 kW | 3.90 kW |
| COP Tj = TOL | 2.50 | 1.70 |
| WTOL | 55 °C | 55 °C |
| Poff | 12 W | 12 W |
| PTO | 0 W | 0 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 0.25 kW | 1.10 kW |
| Annual energy consumption Qhe | 2608 kWh | 3143 kWh |

## Cooling

## EN 14511-2

| | +7°C/+12°C | +18°C/+23°C |
|---|---|---|
| El input | 1.47 kW | 1.19 kW |
| Cooling capacity | 5.3 | 6.3 |
| EER | 3.6 | 5.3 |

## EN 14825

| | **+7°C/+12°C** | **+18°C/+23°C** |
|---|---|---|
| Pdesignc | 5.3 kW | 6.3 kW |
| SEER | 5.53 | 8.5 |
| Pdc Tj = 35°C | 5.3 kW | 6.3 kW |
| EER Tj = 35°C | 3.6 | 5.3 |
| Pdc Tj = 30°C | 3.91 kW | 4.64 kW |
| EER Tj = 30°C | 4.5 | 7 |
| Cdc | 1 | 1 |
| Pdc Tj = 25°C | 2.51 kW | 2.98 kW |
| EER Tj = 25°C | 6.3 | 9.9 |
| Cdc | 1 | 1 |
| Pdc Tj = 20°C | 2.88 kW | 2.65 kW |
| EER Tj = 20°C | 8.56 | 12.6 |
| Cdc | 0.9 | 0.9 |
| Poff | 12 W | 12 W |
| PTO | 0 W | 0 W |
| PSB | 12 W | 12 W |
| PCK | 0 W | 0 W |
| Annual energy consumption Qce | 575 kWh | 337 kWh |