

Subtype 07. Yutaki S 3.0HP R32

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|---------------------|------------------------------------------------|
| Certificate Holder | Johnson Controls-Hitachi AirConditioning Spain |
| Address | Ronda Shimizu, 1. Pol. Ind. Can Torrella |
| ZIP | 08233 |
| City | Vacarisses, Barcelona |
| Country | ES |
| Certification Body | BRE Global Limited |
| Subtype title | 07. Yutaki S 3.0HP R32 |
| Registration number | 041-K002-35 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R32 |
| Mass of Refrigerant | 1.3 kg |
| Certification Date | 02.08.2019 |

Model 01. RAS-3WHVRP RWM-3.0NRE - Heating Only

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|-------------------------------------|------------------------------------------|
| Model name | 01. RAS-3WHVRP RWM-3.0NRE - Heating Only |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 14511-4 | Heating

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

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 37 dB(A) | 37 dB(A) |
| Sound power level outdoor | 67 dB(A) | 69 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| η_s | 177 % | 125 % |
| Prated | 7.00 kW | 6.00 kW |
| SCOP | 4.50 | 3.20 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.90 kW | 5.10 kW |
| COP Tj = -7°C | 2.65 | 1.84 |
| Cdh Tj = -7 °C | 1.00 | 1.00 |
| Pdh Tj = +2°C | 3.59 kW | 3.10 kW |
| COP Tj = +2°C | 4.30 | 3.10 |
| Cdh Tj = +2 °C | 1.00 | 1.00 |
| Pdh Tj = +7°C | 3.20 kW | 2.00 kW |
| COP Tj = +7°C | 7.00 | 4.65 |
| Cdh Tj = +7 °C | 0.90 | 0.90 |
| Pdh Tj = 12°C | 3.50 kW | 2.20 kW |
| COP Tj = 12°C | 9.70 | 6.55 |
| Cdh Tj = +12 °C | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 5.90 kW | 5.10 kW |
| COP Tj = Tbiv | 2.65 | 1.84 |

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|-----------------------------------------------------|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.40 kW | 5.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.50 |
| 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 | 0.60 kW | 1.50 kW |
| Annual energy consumption Qhe | 3068 kWh | 3724 kWh |

Model 02. RAS-3WHVRP RWM-3.0NRE - with cooling kit

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|-------------------------------------|----------------------------------------------|
| Model name | 02. RAS-3WHVRP RWM-3.0NRE - with cooling kit |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C, +18°C/+23°C |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 14511-4 | Heating

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

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 37 dB(A) | 37 dB(A) |
| Sound power level outdoor | 67 dB(A) | 69 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| η_s | 179 % | 127 % |
| Prated | 7.00 kW | 6.00 kW |
| SCOP | 4.55 | 3.25 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.90 kW | 5.10 kW |
| COP Tj = -7°C | 2.65 | 1.84 |
| Cdh Tj = -7 °C | 1.00 | 1.00 |
| Pdh Tj = +2°C | 3.59 kW | 3.10 kW |
| COP Tj = +2°C | 4.30 | 3.10 |
| Cdh Tj = +2 °C | 1.00 | 1.00 |
| Pdh Tj = +7°C | 3.20 kW | 2.00 kW |
| COP Tj = +7°C | 7.00 | 4.65 |
| Cdh Tj = +7 °C | 0.90 | 0.90 |
| Pdh Tj = 12°C | 3.50 kW | 2.20 kW |
| COP Tj = 12°C | 9.70 | 6.55 |
| Cdh Tj = +12 °C | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 5.90 kW | 5.10 kW |
| COP Tj = Tbiv | 2.65 | 1.84 |

| | | |
|-----------------------------------------------------|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.40 kW | 5.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.50 |
| 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 | 0.60 kW | 1.50 kW |
| Annual energy consumption Qhe | 3024 kWh | 3680 kWh |