

Subtype 15. Yutaki S80 4.0HP (tri)

| | |
|---------------------|------------------------------------------------|
| 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 | 15. Yutaki S80 4.0HP (tri) |
| Registration number | 041-K002-15 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R410A |
| Mass of Refrigerant | 3.3 kg |

Model RAS-4WHNPE RWH-4.0NFE - Type 1

| | |
|-------------------------------------|--------------------------------|
| Model name | RAS-4WHNPE RWH-4.0NFE - Type 1 |
| 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 | 3x400V 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 |
| Defrost test | passed |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 57 dB(A) | 57 dB(A) |
| Sound power level outdoor | 61 dB(A) | 61 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|-----------------------------------------------------|-----------------|--------------------|
| η_s | 183 % | 140 % |
| Prated | 11.00 kW | 11.00 kW |
| SCOP | 4.65 | 3.58 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 9.60 kW | 9.73 kW |
| COP Tj = -7°C | 2.74 | 2.30 |
| Pdh Tj = +2°C | 5.84 kW | 5.92 kW |
| COP Tj = +2°C | 5.20 | 3.60 |
| Pdh Tj = +7°C | 3.76 kW | 3.81 kW |
| COP Tj = +7°C | 5.80 | 4.70 |
| Pdh Tj = 12°C | 3.70 kW | 3.60 kW |
| COP Tj = 12°C | 6.40 | 6.00 |
| Pdh Tj = Tbiv | 9.60 kW | 11.00 kW |
| COP Tj = Tbiv | 2.74 | 2.20 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.50 kW | 11.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.65 | 2.20 |

| | | |
|-----------------------------------------------------|-------------|-------------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 55 °C | 55 °C |
| Poff | 44 W | 44 W |
| PTO | 0 W | 0 W |
| PSB | 44 W | 44 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.50 kW | 0.00 kW |
| Annual energy consumption Qhe | 4828 kWh | 6360 kWh |

Model RAS-4WHNPE RWH-4.0NFWE - Type 2

| | |
|-------------------------------------|---------------------------------|
| Model name | RAS-4WHNPE RWH-4.0NFWE - Type 2 |
| 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 | 3x400V 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 |
| Defrost test | passed |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 57 dB(A) | 57 dB(A) |
| Sound power level outdoor | 61 dB(A) | 61 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|-----------------------------------------------------|-----------------|--------------------|
| η_s | 183 % | 140 % |
| Prated | 11.00 kW | 11.00 kW |
| SCOP | 4.65 | 3.58 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 9.60 kW | 9.73 kW |
| COP Tj = -7°C | 2.74 | 2.30 |
| Pdh Tj = +2°C | 5.84 kW | 5.92 kW |
| COP Tj = +2°C | 5.20 | 3.60 |
| Pdh Tj = +7°C | 3.76 kW | 3.81 kW |
| COP Tj = +7°C | 5.80 | 4.70 |
| Pdh Tj = 12°C | 3.70 kW | 3.60 kW |
| COP Tj = 12°C | 6.40 | 6.00 |
| Pdh Tj = Tbiv | 9.60 kW | 11.00 kW |
| COP Tj = Tbiv | 2.74 | 2.20 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.50 kW | 11.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.65 | 2.20 |

| | | |
|-----------------------------------------------------|-------------|-------------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 55 °C | 55 °C |
| Poff | 44 W | 44 W |
| PTO | 0 W | 0 W |
| PSB | 44 W | 44 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.50 kW | 0.00 kW |
| Annual energy consumption Qhe | 4828 kWh | 6360 kWh |