

Subtype 14. Yutaki S80 6.0HP (mono)

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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 | 14. Yutaki S80 6.0HP (mono) |
| Registration number | 041-K002-14 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R410A |
| Mass of Refrigerant | 3.4 kg |
| Testing laboratory | Centro de Ensayos, Innovación y Servicios (CEIS), ES |

Model RAS-6WHVNPE RWH-6.0VNFE - Type 1

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|-------------------------------------|----------------------------------|
| Model name | RAS-6WHVNPE RWH-6.0VNFE - 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 | 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 |
| Defrost test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 16.00 kW | 16.00 kW |
| El input | 3.50 kW | 5.16 kW |
| COP | 4.57 | 3.10 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 58 dB(A) | 58 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 152 % | 126 % |
| Prated | 16.00 kW | 16.00 kW |
| SCOP | 3.88 | 3.23 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 13.80 kW | 14.15 kW |
| COP Tj = -7°C | 2.40 | 2.05 |
| Pdh Tj = +2°C | 8.40 kW | 8.62 kW |
| COP Tj = +2°C | 3.90 | 2.95 |
| Pdh Tj = +7°C | 5.40 kW | 5.54 kW |
| COP Tj = +7°C | 5.00 | 4.60 |
| Pdh Tj = 12°C | 3.50 kW | 4.10 kW |
| COP Tj = 12°C | 6.00 | 6.40 |

| | | |
|-----------------------------------------------------|-------------|-------------|
| Pdh Tj = Tbiv | 13.80 kW | 16.00 kW |
| COP Tj = Tbiv | 2.40 | 1.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 14.10 kW | 16.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.90 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 55 °C | 55 °C |
| Poff | 17 W | 17 W |
| PTO | 0 W | 0 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.90 kW | 0.00 kW |
| Annual energy consumption Qhe | 8304 kWh | 10255 kWh |

Model RAS-6WHVNPE RWH-6.0VNFWE - Type 2

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|-------------------------------------|-----------------------------------|
| Model name | RAS-6WHVNPE RWH-6.0VNFWE - 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 | 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 |
| Defrost test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 16.00 kW | 16.00 kW |
| El input | 3.50 kW | 5.16 kW |
| COP | 4.57 | 3.10 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 58 dB(A) | 58 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 152 % | 126 % |
| Prated | 16.00 kW | 16.00 kW |
| SCOP | 3.88 | 3.23 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 13.80 kW | 14.15 kW |
| COP Tj = -7°C | 2.40 | 2.05 |
| Pdh Tj = +2°C | 8.40 kW | 8.62 kW |
| COP Tj = +2°C | 3.90 | 2.95 |
| Pdh Tj = +7°C | 5.40 kW | 5.54 kW |
| COP Tj = +7°C | 5.00 | 4.60 |
| Pdh Tj = 12°C | 3.50 kW | 4.10 kW |
| COP Tj = 12°C | 6.00 | 6.40 |

| | | |
|-----------------------------------------------------|-------------|-------------|
| Pdh Tj = Tbiv | 13.80 kW | 16.00 kW |
| COP Tj = Tbiv | 2.40 | 1.90 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 14.10 kW | 16.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.90 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 55 °C | 55 °C |
| Poff | 17 W | 17 W |
| PTO | 0 W | 0 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.90 kW | 0.00 kW |
| Annual energy consumption Qhe | 8304 kWh | 10255 kWh |