

Subtype 35. Yutaki S (N1) & S Combi (NW1) 220L 6HP R410A (3ph)

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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 | 35. Yutaki S (N1) & S Combi (NW1) 220L 6HP R410A (3ph) |
| Registration number | 041-K002-56 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R410A |
| Mass of Refrigerant | 3.4 kg |
| Certification Date | 08.02.2022 |
| Testing basis | Heat Pump Keymark Scheme Rules Rev 09 |

Model 03. RAS-6WHNPE RWD-6.0NW1E-220S - Heating Only

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|-------------------------------------|--|
| Model name | 03. RAS-6WHNPE RWD-6.0NW1E-220S - Heating Only |
| Application | Heating + DHW + low 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 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 127 % |
| COP | 3.10 |
| Heating up time | 1:05 h:min |
| Standby power input | 34.0 W |
| Reference hot water temperature | 52.6 °C |
| Mixed water at 40°C | 288 l |

Model 04. RAS-6WHNPE RWD-6.0NW1E-220S - with cooling kit

| | |
|-------------------------------------|--|
| Model name | 04. RAS-6WHNPE RWD-6.0NW1E-220S - with cooling kit |
| Application | Heating + DHW + low 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 | 3x400V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 127 % |
| COP | 3.10 |
| Heating up time | 1:05 h:min |
| Standby power input | 34.0 W |
| Reference hot water temperature | 52.6 °C |
| Mixed water at 40°C | 288 l |

Model 05. RAS-6WHNPE RWD-6.0NW1E-220S-K - UK Version - Heating Only

| | |
|-------------------------------------|---|
| Model name | 05. RAS-6WHNPE RWD-6.0NW1E-220S-K - UK Version - Heating Only |
| Application | Heating + DHW + low 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 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 127 % |
| COP | 3.10 |
| Heating up time | 1:05 h:min |
| Standby power input | 34.0 W |
| Reference hot water temperature | 52.6 °C |
| Mixed water at 40°C | 288 l |

Model 06. RAS-6WHNPE RWD-6.0NW1E-220S-K - UK Version - with cooling kit

| | |
|-------------------------------------|---|
| Model name | 06. RAS-6WHNPE RWD-6.0NW1E-220S-K - UK Version - with cooling kit |
| Application | Heating + DHW + low 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 | 3x400V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 127 % |
| COP | 3.10 |
| Heating up time | 1:05 h:min |
| Standby power input | 34.0 W |
| Reference hot water temperature | 52.6 °C |
| Mixed water at 40°C | 288 l |

Model 01. RAS-6WHNPE RWM-6.0N1E - Heating Only

| | |
|-------------------------------------|--|
| Model name | 01. RAS-6WHNPE RWM-6.0N1E - 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 | 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 |
| Starting and operating test | passed |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 39 dB(A) | 39 dB(A) |
| Sound power level outdoor | 60 dB(A) | 60 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| η_s | 161 % | 134 % |
| Prated | 16.00 kW | 14.00 kW |
| SCOP | 4.11 | 3.41 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 13.80 kW | 11.20 kW |
| COP Tj = -7°C | 2.40 | 1.94 |
| Cdh Tj = -7 °C | 0.900 | 0.900 |
| Pdh Tj = +2°C | 8.40 kW | 6.82 kW |
| COP Tj = +2°C | 3.90 | 3.35 |
| Cdh Tj = +2 °C | 0.900 | 0.900 |
| Pdh Tj = +7°C | 5.40 kW | 4.38 kW |
| COP Tj = +7°C | 6.16 | 4.80 |
| Cdh Tj = +7 °C | 0.900 | 0.900 |
| Pdh Tj = 12°C | 3.50 kW | 3.60 kW |
| COP Tj = 12°C | 7.10 | 7.05 |
| Cdh Tj = +12 °C | 0.900 | 0.900 |
| Pdh Tj = Tbiv | 13.80 kW | 11.20 kW |
| COP Tj = Tbiv | 2.40 | 1.94 |

| | | |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 14.10 kW | 10.50 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.40 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900 | 0.900 |
| WTOL | 55 °C | 55 °C |
| Poff | 19 W | 19 W |
| PTO | 0 W | 0 W |
| PSB | 19 W | 19 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.90 kW | 3.50 kW |
| Annual energy consumption Qhe | 7844 kWh | 7662 kWh |

Model 02. RAS-6WHNPE RWM-6.0N1E - with cooling kit

| | |
|-------------------------------------|--|
| Model name | 02. RAS-6WHNPE RWM-6.0N1E - 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 | 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 |
| Starting and operating test | passed |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 39 dB(A) | 39 dB(A) |
| Sound power level outdoor | 60 dB(A) | 60 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| η_s | 163 % | 135 % |
| Prated | 16.00 kW | 14.00 kW |
| SCOP | 4.15 | 3.45 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 13.80 kW | 11.20 kW |
| COP Tj = -7°C | 2.40 | 1.94 |
| Cdh Tj = -7 °C | 0.900 | 0.900 |
| Pdh Tj = +2°C | 8.40 kW | 6.82 kW |
| COP Tj = +2°C | 3.90 | 3.35 |
| Cdh Tj = +2 °C | 0.900 | 0.900 |
| Pdh Tj = +7°C | 5.40 kW | 4.38 kW |
| COP Tj = +7°C | 6.16 | 4.80 |
| Cdh Tj = +7 °C | 0.900 | 0.900 |
| Pdh Tj = 12°C | 3.50 kW | 3.60 kW |
| COP Tj = 12°C | 7.10 | 7.05 |
| Cdh Tj = +12 °C | 0.900 | 0.900 |
| Pdh Tj = Tbiv | 13.80 kW | 11.20 kW |

| | | |
|---|-------------|-------------|
| COP Tj = Tbiv | 2.40 | 1.94 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 14.10 kW | 10.50 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.40 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900 | 0.900 |
| WTOL | 55 °C | 55 °C |
| Poff | 19 W | 19 W |
| PTO | 0 W | 0 W |
| PSB | 19 W | 19 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.90 kW | 3.50 kW |
| Annual energy consumption Qhe | 7774 kWh | 7592 kWh |