

## Subtype 03. Yutaki S &amp; S Combi 3.0HP

|                     |  |
|---------------------|--|
| 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       | 03. Yutaki S & S Combi 3.0HP                   |
| Registration number | 041-K002-03                                    |
| Heat Pump Type      | Outdoor Air/Water                              |
| Refrigerant         | R410A  |
| Mass of Refrigerant | 1.7 kg   |

## Model RAS-3WHVNP RWM-3.0NE - Heating Only

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Model name                          | RAS-3WHVNP RWM-3.0NE - 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                                 |
| Phase-out Date                      | 31.10.2024                          |

## 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 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 37 dB(A)        | 37 dB(A)           |
| Sound power level outdoor | 64 dB(A)        | 64 dB(A)           |

### EN 14825 | Average Climate

|   | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| $\eta_s$  | 165 %           | 125 %              |
| Prated  | 7.00 kW         | 6.00 kW            |
| SCOP  | 4.20            | 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                                       | 2.50            | 1.84               |
| Pdh Tj = +2°C                                       | 3.59 kW         | 3.10 kW            |
| COP Tj = +2°C                                       | 4.40            | 3.20               |
| Pdh Tj = +7°C                                       | 2.31 kW         | 2.00 kW            |
| COP Tj = +7°C                                       | 5.35            | 4.45               |
| Pdh Tj = 12°C                                       | 2.10 kW         | 2.30 kW            |
| COP Tj = 12°C                                       | 6.15            | 5.96               |
| Pdh Tj = Tbiv                                       | 5.90 kW         | 5.10 kW            |
| COP Tj = Tbiv                                       | 2.50            | 1.84               |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.40 kW         | 4.30 kW            |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30            | 1.65               |

|   |             |             |
|---|-------------|-------------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90        | 0.90        |
| WTOL  | 55 °C       | 55 °C       |
| Poff  | 11 W        | 11 W        |
| PTO   | 0 W         | 0 W         |
| PSB   | 11 W        | 11 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                       | 3286 kWh    | 3724 kWh    |

## Model RAS-3WHVNP RWD-3.0NWE-200S - Heating Only

|                                     |   |
|-------------------------------------|---|
| Model name                          | RAS-3WHVNP RWD-3.0NWE-200S - 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                                       |
| Phase-out Date                      | 31.10.2024                                |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | Yes         |

## Outdoor Air/Water

## EN 16147 | Average Climate

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 132 %      |
| COP                             | 3.30       |
| Heating up time                 | 1:43 h:min |
| Standby power input             | 37.0 W     |
| Reference hot water temperature | 54.0 °C    |
| Mixed water at 40°C             | 263 l      |

## Model RAS-3WHVNP RWD-3.0NWE-260S - Heating Only

|                                     |   |
|-------------------------------------|---|
| Model name                          | RAS-3WHVNP RWD-3.0NWE-260S - 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                                       |
| Phase-out Date                      | 31.10.2024                                |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | Yes         |

## Outdoor Air/Water

## EN 16147 | Average Climate

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 136 %      |
| COP                             | 3.40       |
| Heating up time                 | 2:10 h:min |
| Standby power input             | 41.0 W     |
| Reference hot water temperature | 54.0 °C    |
| Mixed water at 40°C             | 350 l      |

## Model RAS-3WHVNP RWD-3.0NWE-200S-K - UK- Heating Only

|                                     |   |
|-------------------------------------|---|
| Model name                          | RAS-3WHVNP RWD-3.0NWE-200S-K - UK- 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   |
| Phase-out Date                      | 31.10.2024                                      |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | Yes         |

## Outdoor Air/Water

## EN 16147 | Average Climate

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 132 %      |
| COP                             | 3.30       |
| Heating up time                 | 1:43 h:min |
| Standby power input             | 37.0 W     |
| Reference hot water temperature | 54.0 °C    |
| Mixed water at 40°C             | 263 l      |

## Model RAS-3WHVNP RWD-3.0NWE-260S-K - UK- Heating Only

|                                     |   |
|-------------------------------------|---|
| Model name                          | RAS-3WHVNP RWD-3.0NWE-260S-K - UK- 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   |
| Phase-out Date                      | 31.10.2024                                      |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | Yes         |

## Outdoor Air/Water

## EN 16147 | Average Climate

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 136 %      |
| COP                             | 3.40       |
| Heating up time                 | 2:10 h:min |
| Standby power input             | 41.0 W     |
| Reference hot water temperature | 54.0 °C    |
| Mixed water at 40°C             | 350 l      |

## Model RAS-3WHVNP RWD-3.0NWSE-260S - Solar - Heating Only

|                                     |  |
|-------------------------------------|--|
| Model name                          | RAS-3WHVNP RWD-3.0NWSE-260S - Solar - 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  |
| Phase-out Date                      | 31.10.2024   |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | Yes         |

## Outdoor Air/Water

## EN 16147 | Average Climate

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 136 %      |
| COP                             | 3.40       |
| Heating up time                 | 2:10 h:min |
| Standby power input             | 41.0 W     |
| Reference hot water temperature | 54.0 °C    |
| Mixed water at 40°C             | 350 l      |



## Model RAS-3WHVNP RWM-3.0NE - with cooling kit

|                                     |   |
|-------------------------------------|---|
| Model name                          | RAS-3WHVNP RWM-3.0NE - with cooling kit |
| 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                                     |
| Phase-out Date                      | 31.10.2024                              |

## 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 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 37 dB(A)        | 37 dB(A)           |
| Sound power level outdoor | 64 dB(A)        | 64 dB(A)           |

## EN 14825 | Average Climate

|   | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| $\eta_s$  | 167 %           | 127 %              |
| Prated  | 7.00 kW         | 6.00 kW            |
| SCOP  | 4.25            | 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                                       | 2.50            | 1.84               |
| Pdh Tj = +2°C                                       | 3.59 kW         | 3.10 kW            |
| COP Tj = +2°C                                       | 4.40            | 3.20               |
| Pdh Tj = +7°C                                       | 2.31 kW         | 2.00 kW            |
| COP Tj = +7°C                                       | 5.35            | 4.45               |
| Pdh Tj = 12°C                                       | 2.10 kW         | 2.30 kW            |
| COP Tj = 12°C                                       | 6.15            | 5.96               |
| Pdh Tj = Tbiv                                       | 5.90 kW         | 5.10 kW            |
| COP Tj = Tbiv                                       | 2.50            | 1.84               |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.40 kW         | 4.30 kW            |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30            | 1.65               |

|   |             |             |
|---|-------------|-------------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90        | 0.90        |
| WTOL  | 55 °C       | 55 °C       |
| Poff  | 11 W        | 11 W        |
| PTO   | 0 W         | 0 W         |
| PSB   | 11 W        | 11 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                       | 3242 kWh    | 3690 kWh    |

## Model RAS-3WHVNP RWD-3.0NWE-200S - with cooling kit

|                                     |   |
|-------------------------------------|---|
| Model name                          | RAS-3WHVNP RWD-3.0NWE-200S - with cooling kit |
| 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   |
| Phase-out Date                      | 31.10.2024                                    |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | Yes         |

## Outdoor Air/Water

## EN 16147 | Average Climate

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 132 %      |
| COP                             | 3.30       |
| Heating up time                 | 1:43 h:min |
| Standby power input             | 37.0 W     |
| Reference hot water temperature | 54.0 °C    |
| Mixed water at 40°C             | 263 l      |

## Model RAS-3WHVNP RWD-3.0NWE-260S - with cooling kit

|                                     |   |
|-------------------------------------|---|
| Model name                          | RAS-3WHVNP RWD-3.0NWE-260S - with cooling kit |
| 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   |
| Phase-out Date                      | 31.10.2024                                    |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | Yes         |

## Outdoor Air/Water

## EN 16147 | Average Climate

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 136 %      |
| COP                             | 3.40       |
| Heating up time                 | 2:10 h:min |
| Standby power input             | 41.0 W     |
| Reference hot water temperature | 54.0 °C    |
| Mixed water at 40°C             | 350 l      |

## Model RAS-3WHVNP RWD-3.0NWSE-260S - Solar - with cooling kit

|                                     |  |
|-------------------------------------|--|
| Model name                          | RAS-3WHVNP RWD-3.0NWSE-260S - Solar - with cooling kit |
| 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  |
| Phase-out Date                      | 31.10.2024   |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | Yes         |

## Outdoor Air/Water

## EN 16147 | Average Climate

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 136 %      |
| COP                             | 3.40       |
| Heating up time                 | 2:10 h:min |
| Standby power input             | 41.0 W     |
| Reference hot water temperature | 54.0 °C    |
| Mixed water at 40°C             | 350 l      |