

## Subtype 08. Yutaki S Combi 200L 3.0HP R32

|                     |                                                |
|---------------------|------------------------------------------------|
| 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       | 08. Yutaki S Combi 200L 3.0HP R32              |
| Registration number | 041-K002-36                                    |
| Heat Pump Type      | Outdoor Air/Water                              |
| Refrigerant         | R32                                            |
| Mass of Refrigerant | 1.3 kg                                         |
| Certification Date  | 08.08.2019                                     |

## Model 01. RAS-3WHVRP RWD-3.0NRWE-200S - Heating Only

|                                     |                                                |
|-------------------------------------|------------------------------------------------|
| Model name                          | 01. RAS-3WHVRP RWD-3.0NRWE-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                                            |

## 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      |

## EN 14511-4 | Heating

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

## EN 14511-2 | Heating

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 8.00 kW         | 8.00 kW            |
| El input    | 1.74 kW         | 2.86 kW            |
| COP         | 4.60            | 2.80               |

## 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 |
|----------|-----------------|--------------------|
| $\eta_s$ | 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        |
| 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 RWD-3.0NRWE-200S - with cooling kit

|                                     |                                                    |
|-------------------------------------|----------------------------------------------------|
| Model name                          | 02. RAS-3WHVRP RWD-3.0NRWE-200S - 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     | 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      |

#### EN 14511-4 | Heating

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

#### EN 14511-2 | Heating

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 8.00 kW         | 8.00 kW            |
| El input    | 1.74 kW         | 2.86 kW            |
| COP         | 4.60            | 2.80               |

#### EN 14511-2 | Cooling

|                  | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input         | 1.94 kW    | 1.4 kW      |
| Cooling capacity | 6.5        | 7           |
| EER              | 3.35       | 5           |

#### 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 |
|-----------------------------------------------------|-----------------|--------------------|
| $\eta_s$                                            | 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           |

#### EN 14825 | Cooling

|                | +7°C/+12°C | +18°C/+23°C |
|----------------|------------|-------------|
| Pdesignc       | 6.5 kW     | 7 kW        |
| SEER           | 5.27       | 8.35        |
| Pdc Tj = 35°C  | 6.5 kW     | 7 kW        |
| EER Tj = 35°C  | 3.35       | 5           |
| Pdc Tj = 30°C  | 4.79 kW    | 5.16 kW     |
| EER Tj = 30°C  | 4.5        | 6.4         |
| Cdc Tj = 30 °C | 1          | 1           |
| Pdc Tj = 25°C  | 2.9 kW     | 3.32 kW     |
| EER Tj = 25°C  | 6          | 10          |
| Cdc Tj = 25 °C | 1          | 1           |
| Pdc Tj = 20°C  | 3.4 kW     | 3.6 kW      |

|                                |         |         |
|--------------------------------|---------|---------|
| EER $T_j = 20^{\circ}\text{C}$ | 7.5     | 13.5    |
| Cdc $T_j = 20^{\circ}\text{C}$ | 0.9     | 0.9     |
| Poff                           | 12 W    | 12 W    |
| PTO                            | 0 W     | 0 W     |
| PSB                            | 12 W    | 12 W    |
| PCK                            | 0 W     | 0 W     |
| Annual energy consumption Qce  | 740 kWh | 503 kWh |

## Model 03. RAS-3WHVRP RWD-3.0NRWE-200S-K -UK Version - Heating Only

|                                     |                                                              |
|-------------------------------------|--------------------------------------------------------------|
| Model name                          | 03. RAS-3WHVRP RWD-3.0NRWE-200S-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     | 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      |

## EN 14511-4 | Heating

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

## EN 14511-2 | Heating

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 8.00 kW         | 8.00 kW            |
| El input    | 1.74 kW         | 2.86 kW            |
| COP         | 4.60            | 2.80               |

## 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 |
|----------|-----------------|--------------------|
| $\eta_s$ | 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        |
| 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 04. RAS-3WHVRP RWD-3.0NRWE-200S-K -UK Version - with cooling kit

|                                     |                                                                  |
|-------------------------------------|------------------------------------------------------------------|
| Model name                          | 04. RAS-3WHVRP RWD-3.0NRWE-200S-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     | 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      |

## EN 14511-4 | Heating

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

## EN 14511-2 | Heating

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 8.00 kW         | 8.00 kW            |
| El input    | 1.74 kW         | 2.86 kW            |
| COP         | 4.60            | 2.80               |

## EN 14511-2 | Cooling

|                  | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input         | 1.94 kW    | 1.4 kW      |
| Cooling capacity | 6.5        | 7           |
| EER              | 3.35       | 5           |

## 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 |
|-----------------------------------------------------|-----------------|--------------------|
| $\eta_s$                                            | 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           |

#### EN 14825 | Cooling

|                | +7°C/+12°C | +18°C/+23°C |
|----------------|------------|-------------|
| Pdesignc       | 6.5 kW     | 7 kW        |
| SEER           | 5.27       | 8.35        |
| Pdc Tj = 35°C  | 6.5 kW     | 7 kW        |
| EER Tj = 35°C  | 3.35       | 5           |
| Pdc Tj = 30°C  | 4.79 kW    | 5.16 kW     |
| EER Tj = 30°C  | 4.5        | 6.4         |
| Cdc Tj = 30 °C | 1          | 1           |

|                               |         |         |
|-------------------------------|---------|---------|
| Pdc Tj = 25°C                 | 2.9 kW  | 3.32 kW |
| EER Tj = 25°C                 | 6       | 10      |
| Cdc Tj = 25 °C                | 1       | 1       |
| Pdc Tj = 20°C                 | 3.4 kW  | 3.6 kW  |
| EER Tj = 20°C                 | 7.5     | 13.5    |
| Cdc Tj = 20 °C                | 0.9     | 0.9     |
| Poff                          | 12 W    | 12 W    |
| PTO                           | 0 W     | 0 W     |
| PSB                           | 12 W    | 12 W    |
| PCK                           | 0 W     | 0 W     |
| Annual energy consumption Qce | 740 kWh | 503 kWh |