| Summary of | 03. Yutaki S Combi 260L 2.0HP R32 | Reg. No. | 041-K002-31 |
|---|---|---|---|
| Certificate Holder | | | |
| Name | Johnson Controls-Hitachi AirConditioning Spain | | |
| Address | Ronda Shimizu, 1. Pol. Ind. Can Torrella | Zip | 08233 |
| City | Vacarisses, Barcelona | Country | Spain |
| Certification Body | BRE Energy & Communications Division | | |
| Name of testing laboratory | CEIS | | |
| Subtype title | 03. Yutaki S Combi 260L 2.0HP R32 | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R32 | | |
| Mass Of Refrigerant | 1.2 kg | | |
| Certification Date | 08.08.2019 | | |

# Model: 01. RAS-2WHVRP RWD-2.0NRWE-260S - Heating Only

| General Data | |
|---|---|
| Power supply | 1x230V 50Hz |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 4.30 kW | 4.30 kW |
| El input | 0.82 kW | 1.43 kW |
| COP | 5.25 | 3.00 |
| Indoor water flow rate | 0.77 m³/h | 0.46 m³/h |

| EN 14511-4 | |
|---|---|
| | |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Starting and operating test | passed |

## Average Climate

## EN 12102-1

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 37 dB(A) | 37 dB(A) |
| Sound power level outdoor | 61 dB(A) | 61 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 181 % | 133 % |
| Prated | 4.00 kW | 4.00 kW |
| SCOP | 4.60 | 3.40 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 3.54 kW | 3.50 kW |
| COP Tj = -7°C | 3.20 | 2.13 |
| Cdh | 1.00 | 1.00 |
| Pdh Tj = +2°C | 2.35 kW | 2.10 kW |
| COP Tj = +2°C | 4.80 | 3.35 |
| Cdh | 1.00 | 1.00 |
| Pdh Tj = +7°C | 3.00 kW | 2.43 kW |
| COP Tj = +7°C | 6.20 | 5.15 |
| Cdh | 0.90 | 0.90 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 3.05 kW | 2.80 kW |
| COP Tj = 12°C | 8.30 | 6.80 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 3.54 kW | 3.50 kW |
| COP Tj = Tbiv | 3.20 | 2.13 |
| Pdh Tj = TOL | 4.00 kW | 3.10 kW |
| COP Tj = TOL | 2.75 | 1.90 |
| 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 | 0.00 kW | 0.90 kW |
| Annual energy consumption Qhe | 1798 kWh | 2401 kWh |

## Domestic Hot Water (DHW)

## Average Climate

## EN 16147

| | |
|---|---|
| Declared load profile | XL |
| Efficiency ηDHW | 136 % |
| COP | 3.40 |
| Heating up time | 2:20 h:min |
| Standby power input | 37.0 W |
| Reference hot water temperature | 54.0 °C |
| Mixed water at 40°C | 350 l |

# Model: 02. RAS-2WHVRP RWD-2.0NRWE-260S - with cooling kit

| General Data | |
|---|---|
| Power supply | 1x230V 50Hz |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 4.30 kW | 4.30 kW |
| El input | 0.82 kW | 1.43 kW |
| COP | 5.25 | 3.00 |
| Indoor water flow rate | 0.77 m³/h | 0.46 m³/h |

| EN 14511-4 | |
|---|---|
| | |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Starting and operating test | passed |

## Average Climate

## EN 12102-1

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 37 dB(A) | 37 dB(A) |
| Sound power level outdoor | 61 dB(A) | 61 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 186 % | 136 % |
| Prated | 4.00 kW | 4.00 kW |
| SCOP | 4.73 | 3.48 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 3.54 kW | 3.50 kW |
| COP Tj = -7°C | 3.20 | 2.13 |
| Cdh | 1.00 | 1.00 |
| Pdh Tj = +2°C | 2.35 kW | 2.10 kW |
| COP Tj = +2°C | 4.80 | 3.35 |
| Cdh | 1.00 | 1.00 |
| Pdh Tj = +7°C | 3.00 kW | 2.43 kW |
| COP Tj = +7°C | 6.20 | 5.15 |
| Cdh | 0.90 | 0.90 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 3.05 kW | 2.80 kW |
| COP Tj = 12°C | 8.30 | 6.80 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 3.54 kW | 3.50 kW |
| COP Tj = Tbiv | 3.20 | 2.13 |
| Pdh Tj = TOL | 4.00 kW | 3.10 kW |
| COP Tj = TOL | 2.75 | 1.90 |
| 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 | 0.00 kW | 0.90 kW |
| Annual energy consumption Qhe | 1754 kWh | 2357 kWh |

## Cooling

## EN 14511-2

| | +7°C/+12°C | +18°C/+23°C |
|---|---|---|
| El input | 1 kW | 1.02 kW |
| Cooling capacity | 4 | 5.5 |
| EER | 4 | 5.4 |

## EN 14825

| | **+7°C/+12°C** | **+18°C/+23°C** |
|---|---|---|
| Pdesignc | 4 kW | 5.5 kW |
| SEER | 5.57 | 8.04 |
| Pdc Tj = 35°C | 4 kW | 5.5 kW |
| EER Tj = 35°C | 4 | 5.4 |
| Pdc Tj = 30°C | 2.95 kW | 4.05 kW |
| EER Tj = 30°C | 5 | 7.2 |
| Cdc | 1 | 1 |
| Pdc Tj = 25°C | 2.05 kW | 2.61 kW |
| EER Tj = 25°C | 6.45 | 9.6 |
| Cdc | 0.9 | 0.9 |
| Pdc Tj = 20°C | 2.88 kW | 2.51 kW |
| EER Tj = 20°C | 8 | 10.3 |
| Cdc | 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 | 431 kWh | 410 kWh |

## Domestic Hot Water (DHW)

## Average Climate

## EN 16147

| | |
|---|---|
| Declared load profile | XL |
| Efficiency ηDHW | 136 % |
| COP | 3.40 |
| Heating up time | 2:20 h:min |
| Standby power input | 37.0 W |
| Reference hot water temperature | 54.0 °C |
| Mixed water at 40°C | 350 l |

# Model: 03. RAS-2WHVRP RWD-2.0NRWE-260S-K - UK Version - Heating Only

| General Data | |
|---|---|
| Power supply | 1x230V 50Hz |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 4.30 kW | 4.30 kW |
| El input | 0.82 kW | 1.43 kW |
| COP | 5.25 | 3.00 |
| Indoor water flow rate | 0.77 m³/h | 0.46 m³/h |

| EN 14511-4 | |
|---|---|
| | |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Starting and operating test | passed |

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 37 dB(A) | 37 dB(A) |
| Sound power level outdoor | 61 dB(A) | 61 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 181 % | 133 % |
| Prated | 4.00 kW | 4.00 kW |
| SCOP | 4.60 | 3.40 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 3.54 kW | 3.50 kW |
| COP Tj = -7°C | 3.20 | 2.13 |
| Cdh | 1.00 | 1.00 |
| Pdh Tj = +2°C | 2.35 kW | 2.10 kW |
| COP Tj = +2°C | 4.80 | 3.35 |
| Cdh | 1.00 | 1.00 |
| Pdh Tj = +7°C | 3.00 kW | 2.43 kW |
| COP Tj = +7°C | 6.20 | 5.15 |
| Cdh | 0.90 | 0.90 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 3.05 kW | 2.80 kW |
| COP Tj = 12°C | 8.30 | 6.80 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 3.54 kW | 3.50 kW |
| COP Tj = Tbiv | 3.20 | 2.13 |
| Pdh Tj = TOL | 4.00 kW | 3.10 kW |
| COP Tj = TOL | 2.75 | 1.90 |
| 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 | 0.00 kW | 0.90 kW |
| Annual energy consumption Qhe | 1798 kWh | 2401 kWh |

## Domestic Hot Water (DHW)

## Average Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | XL |
| Efficiency ηDHW | 136 % |
| COP | 3.40 |
| Heating up time | 2:20 h:min |
| Standby power input | 37.0 W |
| Reference hot water temperature | 54.0 °C |
| Mixed water at 40°C | 350 l |

# Model: 04. RAS-2WHVRP RWD-2.0NRWE-260S-K - UK Version - with cooling kit

| General Data | |
|---|---|
| Power supply | 1x230V 50Hz |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 4.30 kW | 4.30 kW |
| El input | 0.82 kW | 1.43 kW |
| COP | 5.25 | 3.00 |
| Indoor water flow rate | 0.77 m³/h | 0.46 m³/h |

| EN 14511-4 | |
|---|---|
| | |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Starting and operating test | passed |

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 37 dB(A) | 37 dB(A) |
| Sound power level outdoor | 61 dB(A) | 61 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 186 % | 136 % |
| Prated | 4.00 kW | 4.00 kW |
| SCOP | 4.73 | 3.48 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 3.54 kW | 3.50 kW |
| COP Tj = -7°C | 3.20 | 2.13 |
| Cdh | 1.00 | 1.00 |
| Pdh Tj = +2°C | 2.35 kW | 2.10 kW |
| COP Tj = +2°C | 4.80 | 3.35 |
| Cdh | 1.00 | 1.00 |
| Pdh Tj = +7°C | 3.00 kW | 2.43 kW |
| COP Tj = +7°C | 6.20 | 5.15 |
| Cdh | 0.90 | 0.90 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 3.05 kW | 2.80 kW |
| COP Tj = 12°C | 8.30 | 6.80 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 3.54 kW | 3.50 kW |
| COP Tj = Tbiv | 3.20 | 2.13 |
| Pdh Tj = TOL | 4.00 kW | 3.10 kW |
| COP Tj = TOL | 2.75 | 1.90 |
| 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 | 0.00 kW | 0.90 kW |
| Annual energy consumption Qhe | 1754 kWh | 2357 kWh |

## Cooling

## EN 14511-2

| | +7°C/+12°C | +18°C/+23°C |
|---|---|---|
| El input | 1 kW | 1.02 kW |
| Cooling capacity | 4 | 5.5 |
| EER | 4 | 5.4 |

## EN 14825

| | **+7°C/+12°C** | **+18°C/+23°C** |
|---|---|---|
| Pdesignc | 4 kW | 5.5 kW |
| SEER | 5.57 | 8.04 |
| Pdc Tj = 35°C | 4 kW | 5.5 kW |
| EER Tj = 35°C | 4 | 5.4 |
| Pdc Tj = 30°C | 2.95 kW | 4.05 kW |
| EER Tj = 30°C | 5 | 7.2 |
| Cdc | 1 | 1 |
| Pdc Tj = 25°C | 2.05 kW | 2.61 kW |
| EER Tj = 25°C | 6.45 | 9.6 |
| Cdc | 0.9 | 0.9 |
| Pdc Tj = 20°C | 2.88 kW | 2.51 kW |
| EER Tj = 20°C | 8 | 10.3 |
| Cdc | 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 | 431 kWh | 410 kWh |

## Domestic Hot Water (DHW)

## Average Climate

## EN 16147

| | |
|---|---|
| Declared load profile | XL |
| Efficiency ηDHW | 136 % |
| COP | 3.40 |
| Heating up time | 2:20 h:min |
| Standby power input | 37.0 W |
| Reference hot water temperature | 54.0 °C |
| Mixed water at 40°C | 350 l |

# Model: 05. RAS-2WHVRP RWD-2.0NRWSE-260S - Solar Version - Heating Only

| General Data | |
|---|---|
| Power supply | 1x230V 50Hz |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 4.30 kW | 4.30 kW |
| El input | 0.82 kW | 1.43 kW |
| COP | 5.25 | 3.00 |
| Indoor water flow rate | 0.77 m³/h | 0.46 m³/h |

| EN 14511-4 | |
|---|---|
| | |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Starting and operating test | passed |

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 37 dB(A) | 37 dB(A) |
| Sound power level outdoor | 61 dB(A) | 61 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 181 % | 133 % |
| Prated | 4.00 kW | 4.00 kW |
| SCOP | 4.60 | 3.40 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 3.54 kW | 3.50 kW |
| COP Tj = -7°C | 3.20 | 2.13 |
| Cdh | 1.00 | 1.00 |
| Pdh Tj = +2°C | 2.35 kW | 2.10 kW |
| COP Tj = +2°C | 4.80 | 3.35 |
| Cdh | 1.00 | 1.00 |
| Pdh Tj = +7°C | 3.00 kW | 2.43 kW |
| COP Tj = +7°C | 6.20 | 5.15 |
| Cdh | 0.90 | 0.90 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 3.05 kW | 2.80 kW |
| COP Tj = 12°C | 8.30 | 6.80 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 3.54 kW | 3.50 kW |
| COP Tj = Tbiv | 3.20 | 2.13 |
| Pdh Tj = TOL | 4.00 kW | 3.10 kW |
| COP Tj = TOL | 2.75 | 1.90 |
| 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 | 0.00 kW | 0.90 kW |
| Annual energy consumption Qhe | 1798 kWh | 2401 kWh |

## Domestic Hot Water (DHW)

## Average Climate

## EN 16147

| | |
|---|---|
| Declared load profile | XL |
| Efficiency ηDHW | 136 % |
| COP | 3.40 |
| Heating up time | 2:20 h:min |
| Standby power input | 37.0 W |
| Reference hot water temperature | 54.0 °C |
| Mixed water at 40°C | 350 l |

# Model: 06. RAS-2WHVRP RWD-2.0NRWSE-260S - Solar Version - with cooling kit

| General Data | |
|---|---|
| Power supply | 1x230V 50Hz |

## Heating

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 4.30 kW | 4.30 kW |
| El input | 0.82 kW | 1.43 kW |
| COP | 5.25 | 3.00 |
| Indoor water flow rate | 0.77 m³/h | 0.46 m³/h |

| EN 14511-4 | |
|---|---|
| | |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Starting and operating test | passed |

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 37 dB(A) | 37 dB(A) |
| Sound power level outdoor | 61 dB(A) | 61 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 186 % | 136 % |
| Prated | 4.00 kW | 4.00 kW |
| SCOP | 4.73 | 3.48 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 3.54 kW | 3.50 kW |
| COP Tj = -7°C | 3.20 | 2.13 |
| Cdh | 1.00 | 1.00 |
| Pdh Tj = +2°C | 2.35 kW | 2.10 kW |
| COP Tj = +2°C | 4.80 | 3.35 |
| Cdh | 1.00 | 1.00 |
| Pdh Tj = +7°C | 3.00 kW | 2.43 kW |
| COP Tj = +7°C | 6.20 | 5.15 |
| Cdh | 0.90 | 0.90 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 3.05 kW | 2.80 kW |
| COP Tj = 12°C | 8.30 | 6.80 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 3.54 kW | 3.50 kW |
| COP Tj = Tbiv | 3.20 | 2.13 |
| Pdh Tj = TOL | 4.00 kW | 3.10 kW |
| COP Tj = TOL | 2.75 | 1.90 |
| 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 | 0.00 kW | 0.90 kW |
| Annual energy consumption Qhe | 1754 kWh | 2357 kWh |

## Cooling

## EN 14511-2

| | +7°C/+12°C | +18°C/+23°C |
|---|---|---|
| El input | 1 kW | 1.02 kW |
| Cooling capacity | 4 | 5.5 |
| EER | 4 | 5.4 |

## EN 14825

| | **+7°C/+12°C** | **+18°C/+23°C** |
|---|---|---|
| Pdesignc | 4 kW | 5.5 kW |
| SEER | 5.57 | 8.04 |
| Pdc Tj = 35°C | 4 kW | 5.5 kW |
| EER Tj = 35°C | 4 | 5.4 |
| Pdc Tj = 30°C | 2.95 kW | 4.05 kW |
| EER Tj = 30°C | 5 | 7.2 |
| Cdc | 1 | 1 |
| Pdc Tj = 25°C | 2.05 kW | 2.61 kW |
| EER Tj = 25°C | 6.45 | 9.6 |
| Cdc | 0.9 | 0.9 |
| Pdc Tj = 20°C | 2.88 kW | 2.51 kW |
| EER Tj = 20°C | 8 | 10.3 |
| Cdc | 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 | 431 kWh | 410 kWh |

## Domestic Hot Water (DHW)

## Average Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | XL |
| Efficiency ηDHW | 136 % |
| COP | 3.40 |
| Heating up time | 2:20 h:min |
| Standby power input | 37.0 W |
| Reference hot water temperature | 54.0 °C |
| Mixed water at 40°C | 350 l |