

Subtype 22. YUTAKI S (N2) & S Combi (NW2) 3HP R32

Certificate Holder	Johnson Controls-Hitachi AirConditioning Spain
Address	Ronda Shimizu, 1. Pol. Ind. Can Torrella
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Country	ES
Certification Body	BRE Global Limited
Subtype title	22. YUTAKI S (N2) & S Combi (NW2) 3HP R32
Registration number	041-K002-69
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.2 kg
Certification Date	13.09.2024
Testing basis	Heat Pump Keymark Scheme Rules v14
Testing laboratory	Centro de Ensayos, Innovación y Servicios (CEIS), ES

**Model RAS-3WHVRP2E - RWM-3.0R2E - Heating only**

Model name	RAS-3WHVRP2E - RWM-3.0R2E - 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	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
Starting and operating test	passed

**EN 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
EI input	1.73 kW	2.86 kW
COP	4.60	2.80

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	175 %	125 %
Prated	6.70 kW	5.80 kW
SCOP	4.46	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	2.70	1.85
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.30	3.05
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.20 kW	2.43 kW

COP Tj = +7°C	6.60	4.73
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.50 kW	2.80 kW
COP Tj = 12°C	9.70	7.51
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.90 kW	5.10 kW
COP Tj = Tbiv	2.70	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
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	1.10 kW	0.80 kW
Annual energy consumption Qhe	3088 kWh	3722 kWh

**Model RAS-3WHVRP2E - RWM-3.0R2E - with Cooling kit**

Model name	RAS-3WHVRP2E - RWM-3.0R2E - 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	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
Starting and operating test	passed

**EN 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.73 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	1.40 kW
Cooling capacity	6.50	7.00
EER	3.35	5.00

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	178 %	127 %
Prated	6.70 kW	5.80 kW
SCOP	4.53	3.24
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.70	1.85
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.30	3.05
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.20 kW	2.43 kW
COP Tj = +7°C	6.60	4.73
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.50 kW	2.80 kW
COP Tj = 12°C	9.70	7.51
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.70 kW	5.10 kW
COP Tj = Tbiv	2.70	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
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	1.10 kW	0.80 kW
Annual energy consumption Qhe	3045 kWh	3678 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.50 kW	7.00 kW
SEER	5.27	8.35
Pdc Tj = 35°C	6.50 kW	7.00 kW
EER Tj = 35°C	3.35	5.00
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	4.79 kW	5.16 kW
EER Tj = 30°C	4.50	6.40
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	2.90 kW	3.32 kW
EER Tj = 25°C	6.00	10.00
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	3.40 kW	3.60 kW
EER Tj = 20°C	7.50	13.50
Cdc Tj = 20 °C	0.900	0.900

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 RAS-3WHVRP2E - RWD-3.0RW2E-220S - Heating only**

Model name	RAS-3WHVRP2E - RWD-3.0RW2E-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	1x230V 50Hz
Off-peak product	n/a

**Outdoor Air/Water****EN 16147 | Average Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	126 %
COP	3.10
Heating up time	1:40 h:min
Standby power input	32.0 W
Reference hot water temperature	52.6 °C
Mixed water at 40°C	283 l

**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 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.73 kW	2.86 kW
COP	4.60	2.80

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	175 %	125 %
Prated	6.70 kW	5.80 kW

SCOP	4.46	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	2.70	1.85
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.30	3.05
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.20 kW	2.40 kW
COP Tj = +7°C	6.60	4.73
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.50 kW	2.80 kW
COP Tj = 12°C	9.70	7.51
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.90 kW	5.10 kW
COP Tj = Tbiv	2.70	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
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	1.10 kW	0.80 kW
Annual energy consumption Qhe	3088 kWh	3722 kWh

**Model RAS-3WHVRP2E - RWD-3.0RW2E-220S - with Cooling kit**

Model name	RAS-3WHVRP2E - RWD-3.0RW2E-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	1x230V 50Hz
Off-peak product	n/a

**Outdoor Air/Water****EN 16147 | Average Climate**

Declared load profile	L
Efficiency ηDHW	126 %
COP	3.10
Heating up time	1:40 h:min
Standby power input	32.0 W
Reference hot water temperature	52.6 °C
Mixed water at 40°C	283 l

**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 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.73 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	1.40 kW
Cooling capacity	6.50	7.00
EER	3.35	5.00

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	178 %	127 %
P <sub>rated</sub>	6.70 kW	5.80 kW
SCOP	4.53	3.24
T <sub>biv</sub>	-7 °C	-7 °C
T <sub>OL</sub>	-10 °C	-10 °C
P <sub>dh T<sub>j</sub></sub> = -7°C	5.90 kW	5.10 kW
COP T <sub>j</sub> = -7°C	2.70	1.85
C <sub>dh T<sub>j</sub></sub> = -7 °C	0.900	0.900
P <sub>dh T<sub>j</sub></sub> = +2°C	3.59 kW	3.10 kW
COP T <sub>j</sub> = +2°C	4.30	3.05
C <sub>dh T<sub>j</sub></sub> = +2 °C	0.900	0.900
P <sub>dh T<sub>j</sub></sub> = +7°C	3.20 kW	2.43 kW
COP T <sub>j</sub> = +7°C	6.60	4.73
C <sub>dh T<sub>j</sub></sub> = +7 °C	0.900	0.900
P <sub>dh T<sub>j</sub></sub> = 12°C	3.50 kW	2.80 kW
COP T <sub>j</sub> = 12°C	9.70	7.51
C <sub>dh T<sub>j</sub></sub> = +12 °C	0.900	0.900
P <sub>dh T<sub>j</sub></sub> = T <sub>biv</sub>	5.70 kW	5.10 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.70	1.85
P <sub>dh T<sub>j</sub></sub> = T <sub>OL</sub> or P <sub>dh T<sub>j</sub></sub> = T <sub>designh</sub> if T <sub>OL</sub> < T <sub>designh</sub>	5.60 kW	5.00 kW
COP T <sub>j</sub> = T <sub>OL</sub> or COP T <sub>j</sub> = T <sub>designh</sub> if T <sub>OL</sub> < T <sub>designh</sub>	2.70	1.85
C <sub>dh T<sub>j</sub></sub> = T <sub>OL</sub> or P <sub>dh T<sub>j</sub></sub> = T <sub>designh</sub> if T <sub>OL</sub> < T <sub>designh</sub>	0.900	0.900
WTOL	55 °C	55 °C
P <sub>off</sub>	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	1.10 kW	0.80 kW
Annual energy consumption Q <sub>he</sub>	3045 kWh	3678 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	6.50 kW	7.00 kW
SEER	5.27	8.35
P <sub>dc T<sub>j</sub></sub> = 35°C	6.50 kW	7.00 kW
EER T <sub>j</sub> = 35°C	3.35	5.00
C <sub>dc T<sub>j</sub></sub> = 35 °C	0.900	0.900

Pdc Tj = 30°C	4.79 kW	5.16 kW
EER Tj = 30°C	4.50	6.40
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	2.90 kW	3.32 kW
EER Tj = 25°C	6.00	10.00
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	3.40 kW	3.60 kW
EER Tj = 20°C	7.50	13.50
Cdc Tj = 20 °C	0.900	0.900
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