

Subtype 23. YUTAKI S (N2) & S Combi (NW2) 1.5HP 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	23. YUTAKI S (N2) & S Combi (NW2) 1.5HP R32
Registration number	041-K002-70
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.1 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-1.5WHVRP2E - RWM-1.5R2E - Heating only

Model name	RAS-1.5WHVRP2E - RWM-1.5R2E - 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	3.50 kW	3.50 kW
EI input	0.69 kW	1.19 kW
COP	5.10	2.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	175 %	125 %
P _{rated}	3.50 kW	3.50 kW
SCOP	4.46	3.20
T _{biv}	-7 °C	-7 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j} = -7°C	3.10 kW	3.10 kW
COP T _j = -7°C	2.85	2.10
C _{dh T_j} = -7 °C	0.900	0.900
P _{dh T_j} = +2°C	2.00 kW	2.00 kW
COP T _j = +2°C	4.55	3.05
C _{dh T_j} = +2 °C	0.900	0.900
P _{dh T_j} = +7°C	3.00 kW	2.43 kW

COP Tj = +7°C	6.80	4.87
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	7.81	7.07
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.10 kW	3.10 kW
COP Tj = Tbiv	2.85	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.50 kW	3.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	2.55
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1624 kWh	2263 kWh

Model RAS-1.5WHVRP2E - RWM-1.5R2E - with Cooling kit

Model name	RAS-1.5WHVRP2E - RWM-1.5R2E - 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	3.50 kW	3.50 kW
El input	0.69 kW	1.19 kW
COP	5.10	2.95

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	0.95 kW	1.01 kW
Cooling capacity	3.50	5.00
EER	4.00	4.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	180 %	128 %
Prated	3.50 kW	3.50 kW
SCOP	4.58	3.26
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.10 kW	3.10 kW
COP Tj = -7°C	2.85	2.10
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.00 kW	2.00 kW
COP Tj = +2°C	4.55	3.05
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	6.80	4.87
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	7.81	7.07
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.10 kW	3.10 kW
COP Tj = Tbiv	2.85	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.50 kW	3.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	2.55
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1581 kWh	2219 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	3.50 kW	5.00 kW
SEER	5.74	8.30
Pdc Tj = 35°C	3.50 kW	5.00 kW
EER Tj = 35°C	4.00	4.95
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	2.45 kW	3.55 kW
EER Tj = 30°C	5.00	6.74
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	1.55 kW	2.11 kW
EER Tj = 25°C	6.45	9.12
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.38 kW	2.50 kW
EER Tj = 20°C	7.60	12.38
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	366 kWh	361 kWh

Model RAS-1.5WHVRP2E - RWD-1.5RW2E-220S - Heating only

Model name	RAS-1.5WHVRP2E - RWD-1.5RW2E-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 η_{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	3.50 kW	3.50 kW
El input	0.69 kW	1.19 kW
COP	5.10	2.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	175 %	125 %
Prated	3.50 kW	3.50 kW

SCOP	4.46	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.10 kW	3.10 kW
COP Tj = -7°C	2.85	2.10
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.00 kW	2.00 kW
COP Tj = +2°C	4.55	3.05
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	6.80	4.87
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	7.81	7.07
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.10 kW	3.10 kW
COP Tj = Tbiv	2.85	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.50 kW	3.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	2.55
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1624 kWh	2263 kWh

Model RAS-1.5WHVRP2E - RWD-1.5RW2E-220S - with Cooling kit

Model name	RAS-1.5WHVRP2E - RWD-1.5RW2E-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	3.50 kW	3.50 kW
El input	0.69 kW	1.19 kW
COP	5.10	2.95

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	0.95 kW	1.01 kW
Cooling capacity	3.50	5.00
EER	4.00	4.95

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	50 dB(A)	50 dB(A)

EN 14825 | Average Climate

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COP T _j = -7°C	2.85	2.10
C _{dh T_j} = -7 °C	0.900	0.900
P _{dh T_j} = +2°C	2.00 kW	2.00 kW
COP T _j = +2°C	4.55	3.05
C _{dh T_j} = +2 °C	0.900	0.900
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P _{dh T_j} = 12°C	3.05 kW	2.80 kW
COP T _j = 12°C	7.81	7.07
C _{dh T_j} = +12 °C	0.900	0.900
P _{dh T_j} = T _{biv}	3.10 kW	3.10 kW
COP T _j = T _{biv}	2.85	2.10
P _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	3.50 kW	3.50 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.85	2.55
C _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	0.900	0.900
WTOL	55 °C	55 °C
P _{off}	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	0.00 kW
Annual energy consumption Q _{he}	1581 kWh	2219 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	3.50 kW	5.00 kW
SEER	5.74	8.30
P _{dc T_j} = 35°C	3.50 kW	5.00 kW
EER T _j = 35°C	4.00	4.95
C _{dc T_j} = 35 °C	0.900	0.900

Pdc Tj = 30°C	2.45 kW	3.55 kW
EER Tj = 30°C	5.00	6.74
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	1.55 kW	2.11 kW
EER Tj = 25°C	6.45	9.12
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.38 kW	2.50 kW
EER Tj = 20°C	7.60	12.38
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	366 kWh	361 kWh