Certificate

Select search focus

02. Yutaki S Combi 200L 2.0HP R32

Certificate Holder	Johnson Controls-Hitachi AirConditioning Spain Ronda Shimizu, 1. Pol. Ind. Can Torrella 08233 Vacarisses, Barcelona Spain
Reg. No.	041-K002-30/ Rev. 1
Certification body	BRE Energy & Communications Division
Name of testing laboratory	CEIS
Subtype title	02. Yutaki S Combi 200L 2.0HP R32
Heat Pump Type	Outdoor Air/Water
Refrigerant	HFC-32
Mass of refrigerant	1,200kg
Certification Date	08.08.2019

01. RAS-2WHVRP RWD-2.0NRWE-200S - Heating Only

General Data

Power supply	1x230V 50Hz
Off-peak product	Yes

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.30kW	4.30kW
El input	0.82kW	1.43kW
COP	5.25	3.00
Indoor water flow rate	0.77m^3/h	0.46m^3/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

Sound power level indoor	37dB(A)	37dB(A)
Sound power level outdoor	61dB(A)	61dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	181%	133%
P_{rated}	4.00kW	4.00kW
SCOP	4.60	3.40
T_{biv}	-7°C	-7°C
TOL	-10°C	-10°C
Pdh Tj = -7°C	3.54kW	3.50kW
COPd Tj = -7°C	3.20	2.13
Cdh	1.00	1.00
Pdh Tj = +2°C	2.35kW	2.10kW
COPd Tj = +2°C	4.80	3.35
Cdh	1.00	1.00
Pdh Tj = +7°C	3.00kW	2.43kW
COPd Tj = +7°C	6.20	5.15
Cdh	0.90	0.90
Pdh Tj = +12°C	3.05kW	2.80kW
COPd Tj = +12°C	8.30	6.80
Cdh	0.90	0.90
Pdh Tj = bivalent temperature	3.54kW	3.50kW
COPd Tj = bivalent temperature	3.20	2.13
Pdh Tj = TOL	4.00kW	3.10kW
COPd Tj = TOL	2.75	1.90
WTOL	55°C	55°C
P_{OFF}	12W	12W
P_{TO}	0W	0W
P_{SB}	12W	12W
P_{CK}	0W	0W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: P_{SUP}	0.00kW	0.90kW
Annual energy consumption Q_{HE}	1798kWh	2401kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency η_{dhw}	132%
COP	3.30
Heating up time	1:43
Standby power input	37.0W

Reference hot water temperature	54.0°C
Mixed water at 40°C	263l

02. RAS-2WHVRP RWD-2.0NWE-200S - with cooling kit

General Data

Power supply	1x230V 50Hz
Off-peak product	Yes

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.30kW	4.30kW
El input	0.82kW	1.43kW
COP	5.25	3.00
Indoor water flow rate	0.77m^3/h	0.46m^3/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

Sound power level indoor	37dB(A)	37dB(A)
Sound power level outdoor	61dB(A)	61dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	186%	136%
P_{rated}	4.00kW	4.00kW
SCOP	4.73	3.48
T_{biv}	-7°C	-7°C
TOL	-10°C	-10°C
Pdh Tj = -7°C	3.54kW	3.50kW
COPd Tj = -7°C	3.20	2.13
Cdh	1.00	1.00
Pdh Tj = +2°C	2.35kW	2.10kW
COPd Tj = +2°C	4.80	3.35
Cdh	1.00	1.00
Pdh Tj = +7°C	3.00kW	2.43kW
COPd Tj = +7°C	6.20	5.15
Cdh	0.90	0.90
Pdh Tj = +12°C	3.05kW	2.80kW
COPd Tj = +12°C	8.30	6.80
Cdh	0.90	0.90
Pdh Tj = bivalent temperature	3.54kW	3.50kW
COPd Tj = bivalent temperature	3.20	2.13
Pdh Tj = TOL	4.00kW	3.10kW
COPd Tj = TOL	2.75	1.90
WTOL	55°C	55°C
P_{OFF}	12W	12W
P_{TO}	0W	0W

P_{SB}	12W	12W
P_{CK}	0W	0W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: P_{SUP}	0.00kW	0.90kW
Annual energy consumption Q_{HE}	1754kWh	2357kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency η_{dhw}	132%
COP	3.30
Heating up time	1:43
Standby power input	37.0W
Reference hot water temperature	54.0°C
Mixed water at 40°C	263l

Cooling

EN 14511-2

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

EN 14825

	+7°C/+12°C	**+18°C/+23°C**
SEER	5.57	8.04
P designc	4 kW	5.5 kW
Pdc Tj = 35°C	4 kW	5.5 kW
EER Tj = 35°C	4 kW	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

03. RAS-2WHVRP RWD-2.0NRWE-200S-K - UK Version - Heating Only

General Data

Power supply	1x230V 50Hz
Off-peak product	Yes

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.30kW	4.30kW
El input	0.82kW	1.43kW
COP	5.25	3.00
Indoor water flow rate	0.77m^3/h	0.46m^3/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

Sound power level indoor	37dB(A)	37dB(A)
Sound power level outdoor	61dB(A)	61dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	181%	133%
P_{rated}	4.00kW	4.00kW
SCOP	4.60	3.40
T_{biv}	-7°C	-7°C
TOL	-10°C	-10°C
Pdh Tj = -7°C	3.54kW	3.50kW
COPd Tj = -7°C	3.20	2.13
Cdh	1.00	1.00
Pdh Tj = +2°C	2.35kW	2.10kW
COPd Tj = +2°C	4.80	3.35
Cdh	1.00	1.00
Pdh Tj = +7°C	3.00kW	2.43kW
COPd Tj = +7°C	6.20	5.15
Cdh	0.90	0.90
Pdh Tj = +12°C	3.05kW	2.80kW
COPd Tj = +12°C	8.30	6.80
Cdh	0.90	0.90
Pdh Tj = bivalent temperature	3.54kW	3.50kW
COPd Tj = bivalent temperature	3.20	2.13
Pdh Tj = TOL	4.00kW	3.10kW
COPd Tj = TOL	2.75	1.90
WTOL	55°C	55°C
P_{OFF}	12W	12W
P_{TO}	0W	0W
P_{SB}	12W	12W
P_{CK}	0W	0W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: P_{SUP}	0.00kW	0.90kW
Annual energy consumption Q_{HE}	1798kWh	2401kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency η_{dhw}	132%
COP	3.30
Heating up time	1:43
Standby power input	37.0W
Reference hot water temperature	54.0°C
Mixed water at 40°C	263l

04. RAS-2WHVRP RWD-2.0NWE-200S-K - UK Version- with cooling kit

General Data

Power supply	1x230V 50Hz
Off-peak product	Yes

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.30kW	4.30kW
El input	0.82kW	1.43kW
COP	5.25	3.00
Indoor water flow rate	0.77m^3/h	0.46m^3/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

Sound power level indoor	37dB(A)	37dB(A)
Sound power level outdoor	61dB(A)	61dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	186%	136%
P_{rated}	4.00kW	4.00kW
SCOP	4.73	3.48
T_{biv}	-7°C	-7°C
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COPd Tj = -7°C	3.20	2.13
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COPd Tj = +2°C	4.80	3.35
Cdh	1.00	1.00
Pdh Tj = +7°C	3.00kW	2.43kW
COPd Tj = +7°C	6.20	5.15
Cdh	0.90	0.90
Pdh Tj = +12°C	3.05kW	2.80kW

COPd Tj = +12°C	8.30	6.80
Cdh	0.90	0.90
Pdh Tj = bivalent temperature	3.54kW	3.50kW
COPd Tj = bivalent temperature	3.20	2.13
Pdh Tj = TOL	4.00kW	3.10kW
COPd Tj = TOL	2.75	1.90
WTOL	55°C	55°C
P_{OFF}	12W	12W
P_{TO}	0W	0W
P_{SB}	12W	12W
P_{CK}	0W	0W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: P_{SUP}	0.00kW	0.90kW
Annual energy consumption Q_{HE}	1754kWh	2357kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency η_{dhw}	132%
COP	3.31
Heating up time	1:43
Standby power input	37.0W
Reference hot water temperature	54.0°C
Mixed water at 40°C	263l

Cooling

EN 14511-2

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

EN 14825

	+7°C/+12°C	**+18°C/+23°C**
SEER	5.57	8.04
P designc	4 kW	5.5 kW
Pdc Tj = 35°C	4 kW	5.5 kW
EER Tj = 35°C	4 kW	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