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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

#### Login

Summary of	02. Yutaki S Combi 200L 2.0HP R32	Reg. No.	041-K002-30
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 Global Limited		
Subtype title	02. Yutaki S Combi 200L 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-200S - Heating Only

Configure model		
Model name   01. RAS-2WHVRP RWD-2.0NRWE-200S - Heating Only		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

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	
СОР	5.25	3.00	

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



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 Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	2.35 kW	2.10 kW
COP Tj = +2°C	4.80	3.35
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	6.20	5.15
Cdh Tj = +7 °C	0.90	0.90

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Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	8.30	6.80
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	3.54 kW	3.50 kW
COP Tj = Tbiv	3.20	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.75	1.90
WTOL	55 °C	55 °C
Poff	12 W	12 W
РТО	0 W	0 W
PSB	12 W	12 W
PCK	o 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)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	132 %	
СОР	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 I	



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

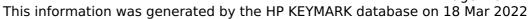
Configure model		
Model name 02. RAS-2WHVRP RWD-2.0NWE-200S - with cooling kit		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility Yes		
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C	

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	
СОР	5.25	3.00	

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

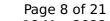




EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

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 Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	2.35 kW	2.10 kW
COP Tj = +2°C	4.80	3.35
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	6.20	5.15
Cdh Tj = +7 °C	0.90	0.90

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This information was generated by the HP KEYMARK database on 18 Mar 2022 Pdh Tj =  $12^{\circ}$ C 3.05 kW 2.80 kW  $COPTj = 12^{\circ}C$ 8.30 6.80 Cdh Tj = +12 °C 0.90 0.90 Pdh Tj = Tbiv3.54 kW 3.50 kW COP Tj = Tbiv 3.20 2.13 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 4.00 kW 3.10 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 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

0.00 kW

1754 kWh

0.90 kW

2357 kWh

### Cooling

Supplementary Heater: PSUP

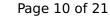
Annual energy consumption Qhe





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
РТО	o w	o w
PSB	12 W	12 W
PCK	o w	o w
Annual energy consumption Qce	431 kWh	410 kWh

## Domestic Hot Water (DHW)



EN 16147	
Declared load profile	L
Efficiency ηDHW	132 %
СОР	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 I



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

Configure model	
Model name	03. RAS-2WHVRP RWD-2.0NRWE-200S-K - UK Version - Heating Only
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

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
СОР	5.25	3.00

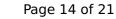
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed



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 Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	2.35 kW	2.10 kW
COP Tj = +2°C	4.80	3.35
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	6.20	5.15
Cdh Tj = +7 °C	0.90	0.90

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Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	8.30	6.80
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	3.54 kW	3.50 kW
COP Tj = Tbiv	3.20	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.75	1.90
WTOL	55 °C	55 °C
Poff	12 W	12 W
РТО	0 W	0 W
PSB	12 W	12 W
PCK	o 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)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	132 %	
СОР	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 I	

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

Configure model		
Model name	04. RAS-2WHVRP RWD-2.0NWE-200S-K - UK Version- with cooling kit	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C	

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
СОР	5.25	3.00

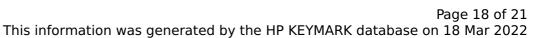
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed



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 Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	2.35 kW	2.10 kW
COP Tj = +2°C	4.80	3.35
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	6.20	5.15
Cdh Tj = +7 °C	0.90	0.90

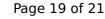
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Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	8.30	6.80
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	3.54 kW	3.50 kW
COP Tj = Tbiv	3.20	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.75	1.90
WTOL	55 °C	55 °C
Poff	12 W	12 W
РТО	o w	0 W
PSB	12 W	12 W
PCK	o 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

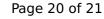
CEN heat pump KEYMARK





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





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+7°C/+12°C	+18°C/+23°C		
4 kW	5.5 kW		
5.57	8.04		
4 kW	5.5 kW		
4	5.4		
2.95 kW	4.05 kW		
5	7.2		
1	1		
2.05 kW	2.61 kW		
6.45	9.6		
0.9	0.9		
2.88 kW	2.51 kW		
8	10.3		
0.9	0.9		
12 W	12 W		
0 W	0 W		
12 W	12 W		
o w	o w		
431 kWh	410 kWh		
	+7°C/+12°C  4 kW  5.57  4 kW  5.57  1 2.95 kW  6.45  0.9  2.88 kW  8  0.9  12 W  0 W  12 W  0 W		

## Domestic Hot Water (DHW)



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EN 16147		
Declared load profile	L	
Efficiency ηDHW	132 %	
СОР	3.31	
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 I	