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Summary of	01. Yutaki S 2.0HP R32	Reg. No.	041-K002-29
Certificate Holder			
Name	Johnson Controls-Hitachi AirConditioning Sp	ain	
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	01. Yutaki S 2.0HP R32		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	1.2 kg		
Certification Date	02.08.2019		



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# Model: 01. RAS-2WHVRP RWM-2.0NRE - 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
СОР	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**



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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

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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
РТО	o w	o w
PSB	12 W	12 W
PCK	o w	o 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



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# Model: 02. RAS-2WHVRP RWM-2.0NRE - 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
СОР	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**



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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

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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
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	1754 kWh	2357 kWh

## Cooling





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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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Time internation trace general	+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	0 W
PSB	12 W	12 W
РСК	0 W	0 W
Annual energy consumption Qce	431 kWh	410 kWh