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Summary of	13. Yutaki S80 5.0HP (mono)	Reg. No.	041-K002-13
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	13. Yutaki S80 5.0HP (mono)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	3.4 kg		



# Model: RAS-5WHVNPE RWH-5.0VNFE - Type 1

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit		
	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	2.97 kW	4.39 kW
СОР	4.71	3.19
Indoor water flow rate	2.40 m³/h	1.50 m³/h

#### Average Climate



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	57 dB(A)	57 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	174 %	131 %
Prated	14.00 kW	14.00 kW
SCOP	4.43	3.35
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	12.38 kW
COP Tj = -7°C	2.55	2.19
Pdh Tj = +2°C	7.30 kW	7.54 kW
COP Tj = +2°C	4.70	3.10
Pdh Tj = +7°C	4.70 kW	4.85 kW
COP Tj = +7°C	5.70	4.60
Pdh Tj = 12°C	3.50 kW	4.10 kW
COP Tj = 12°C	6.00	6.40
Pdh Tj = Tbiv	12.00 kW	14.00 kW

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COP Tj = Tbiv	2.55	2.12
Pdh Tj = TOL	12.10 kW	14.00 kW
COP Tj = TOL	2.50	2.12
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	17 W	17 W
РТО	o w	o w
PSB	17 W	17 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.90 kW	0.00 kW
Annual energy consumption Qhe	6330 kWh	8648 kWh



# Model: RAS-5WHVNPE RWH-5.0VNFWE - Type 2

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	2.97 kW	4.39 kW
СОР	4.71	3.19
Indoor water flow rate	2.40 m³/h	1.50 m³/h

#### **Average Climate**



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	57 dB(A)	57 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	174 %	131 %
Prated	14.00 kW	14.00 kW
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Pdh Tj = +7°C	4.70 kW	4.85 kW
COP Tj = +7°C	5.70	4.60
Pdh Tj = 12°C	3.50 kW	4.10 kW
COP Tj = 12°C	6.00	6.40
Pdh Tj = Tbiv	12.00 kW	14.00 kW

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Pdh Tj = TOL	12.10 kW	14.00 kW
COP Tj = TOL	2.50	2.12
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	17 W	17 W
РТО	0 W	0 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.90 kW	0.00 kW
Annual energy consumption Qhe	6330 kWh	8648 kWh