

Page 1 of 7 This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	12. Yutaki S80 4.0HP (mono)	Reg. No.	041-K002-12
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	12. Yutaki S80 4.0HP (mono)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	3.3 kg		



Model: RAS-4WHVNPE RWH-4.0VNFE - 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	11.00 kW	11.00 kW
El input	2.20 kW	3.31 kW
СОР	5.00	3.32
Indoor water flow rate	1.89 m³/h	1.18 m³/h

Average Climate



 $$\operatorname{\textit{Page}}\xspace$ 3 of 7 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	57 dB(A)	57 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	187 %	142 %
Prated	11.00 kW	11.00 kW
SCOP	4.75	3.63
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	9.73 kW
COP Tj = -7°C	2.74	2.30
Pdh Tj = +2°C	5.84 kW	5.92 kW
COP Tj = +2°C	5.20	3.60
Pdh Tj = +7°C	3.76 kW	3.81 kW
COP Tj = +7°C	5.80	4.70
Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	6.40	6.00
Pdh Tj = Tbiv	9.60 kW	11.00 kW

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com



 $$\operatorname{\textit{Page}}4 of 7 This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = Tbiv	2.74	2.20
Pdh Tj = TOL	10.50 kW	11.00 kW
COP Tj = TOL	2.65	2.20
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	0.50 kW	0.00 kW
Annual energy consumption Qhe	4732 kWh	6261 kWh



This information was generated by the HP KEYMARK database on 17 Dec 2020

Model: RAS-4WHVNPE RWH-4.0VNFWE - 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	11.00 kW	11.00 kW
El input	2.20 kW	3.31 kW
СОР	5.00	3.32
Indoor water flow rate	1.89 m³/h	1.18 m³/h

Average Climate



 $$\operatorname{\textit{Page}}\xspace$ 6 of 7 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	57 dB(A)	57 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	187 %	142 %
Prated	11.00 kW	11.00 kW
SCOP	4.75	3.63
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	9.73 kW
COP Tj = -7°C	2.74	2.30
Pdh Tj = +2°C	5.84 kW	5.92 kW
COP Tj = +2°C	5.20	3.60
Pdh Tj = +7°C	3.76 kW	3.81 kW
COP Tj = +7°C	5.80	4.70
Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	6.40	6.00
Pdh Tj = Tbiv	9.60 kW	11.00 kW

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com



 $$\operatorname{\textit{Page}}\ 7$$ of 7 This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = Tbiv	2.74	2.20
Pdh Tj = TOL	10.50 kW	11.00 kW
COP Tj = TOL	2.65	2.20
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	17 W	17 W
РТО	0 W	o w
PSB	17 W	17 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.50 kW	0.00 kW
Annual energy consumption Qhe	4732 kWh	6261 kWh