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

Summary of	14. Yutaki S80 6.0HP (mono)	Reg. No.	041-K002-14
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 Energy & Communications Division		
Name of testing laboratory	CEIS		
Subtype title	14. Yutaki S80 6.0HP (mono)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	3.4 kg		

Model: RAS-6WHVNPE RWH-6.0VNFE - 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	16.00 kW	16.00 kW
El input	3.50 kW	5.16 kW
COP	4.57	3.10
Indoor water flow rate	2.74 m^3/h	1.71 m^3/h

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	58 dB(A)	58 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	152 %	126 %
Prated	16.00 kW	16.00 kW
SCOP	3.88	3.23
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.80 kW	14.15 kW
COP Tj = -7°C	2.40	2.05
Pdh Tj = +2°C	8.40 kW	8.62 kW
COP Tj = +2°C	3.90	2.95
Pdh Tj = +7°C	5.40 kW	5.54 kW
COP Tj = +7°C	5.00	4.60
Pdh Tj = 12°C	3.50 kW	4.10 kW
COP Tj = 12°C	6.00	6.40
Pdh Tj = Tbiv	13.80 kW	16.00 kW

COP Tj = Tbiv	2.40	1.90
Pdh Tj = TOL	14.10 kW	16.00 kW
COP Tj = TOL	2.30	1.90
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	17 W	17 W
PTO	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	8304 kWh	10255 kWh

Model: RAS-6WHVNPE RWH-6.0VNFWE - 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	16.00 kW	16.00 kW
El input	3.50 kW	5.16 kW
COP	4.57	3.10
Indoor water flow rate	2.74 m^3/h	1.71 m^3/h

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	58 dB(A)	58 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	152 %	126 %
Prated	16.00 kW	16.00 kW
SCOP	3.88	3.23
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.80 kW	14.15 kW
COP Tj = -7°C	2.40	2.05
Pdh Tj = +2°C	8.40 kW	8.62 kW
COP Tj = +2°C	3.90	2.95
Pdh Tj = +7°C	5.40 kW	5.54 kW
COP Tj = +7°C	5.00	4.60
Pdh Tj = 12°C	3.50 kW	4.10 kW
COP Tj = 12°C	6.00	6.40
Pdh Tj = Tbiv	13.80 kW	16.00 kW

COP Tj = Tbiv	2.40	1.90
Pdh Tj = TOL	14.10 kW	16.00 kW
COP Tj = TOL	2.30	1.90
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	17 W	17 W
PTO	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	8304 kWh	10255 kWh