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

Summary of	16. Yutaki S80 5.0HP (tri)	Reg. No.	041-K002-16
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	16. Yutaki S80 5.0HP (tri)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	3.4 kg		

Model: RAS-5WHNPE RWH-5.0NFE - Type 1

General Data	
Power supply	3x400V 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
COP	4.71	3.19
Indoor water flow rate	2.40 m³/h	1.50 m³/h

Average Climate

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**
η_s	171 %	129 %
Prated	14.00 kW	14.00 kW
SCOP	4.35	3.30
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

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	44 W	44 W
PTO	0 W	0 W
PSB	44 W	44 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	6426 kWh	8747 kWh

Model: RAS-5WHNPE RWH-5.0NFWE - Type 2

General Data	
Power supply	3x400V 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
COP	4.71	3.19
Indoor water flow rate	2.40 m³/h	1.50 m³/h

Average Climate

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**
η_s	171 %	129 %
Prated	14.00 kW	14.00 kW
SCOP	4.35	3.30
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

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	44 W	44 W
PTO	0 W	0 W
PSB	44 W	44 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	6426 kWh	8747 kWh