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

Summary of	10. Yutaki S 8.0HP (tri)	Reg. No.	041-K002-10
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	10. Yutaki S 8.0HP (tri)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	5 kg		

Model: RAS-8WHNPE RWM-8.0NE - Heating Only

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	20.00 kW	20.00 kW
El input	4.65 kW	7.35 kW
COP	4.30	2.72
Indoor water flow rate	3.43 m³/h	2.14 m³/h

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	73 dB(A)	73 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	150 %	120 %
Prated	18.00 kW	16.00 kW
SCOP	3.83	3.08
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	15.60 kW	13.80 kW
COP Tj = -7°C	2.50	1.65
Pdh Tj = +2°C	9.50 kW	8.40 kW
COP Tj = +2°C	3.85	3.20
Pdh Tj = +7°C	6.10 kW	6.00 kW
COP Tj = +7°C	5.40	4.50
Pdh Tj = 12°C	7.00 kW	6.80 kW
COP Tj = 12°C	4.65	4.50
Pdh Tj = Tbiv	15.60 kW	13.80 kW

COP Tj = Tbiv	2.50	1.65
Pdh Tj = TOL	16.00 kW	12.10 kW
COP Tj = TOL	2.40	1.50
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	36 W	36 W
PTO	0 W	0 W
PSB	36 W	36 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	3.50 kW
Annual energy consumption Qhe	9513 kWh	10452 kWh

Model: RAS-8WHNPE RWM-8.0NE - with cooling kit

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	20.00 kW	20.00 kW
El input	4.65 kW	7.35 kW
COP	4.30	2.72
Indoor water flow rate	3.43 m³/h	2.14 m³/h

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	73 dB(A)	73 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	152 %	122 %
Prated	18.00 kW	16.00 kW
SCOP	3.88	3.13
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	15.60 kW	13.80 kW
COP Tj = -7°C	2.50	1.65
Pdh Tj = +2°C	9.50 kW	8.40 kW
COP Tj = +2°C	3.85	3.20
Pdh Tj = +7°C	6.10 kW	6.00 kW
COP Tj = +7°C	5.40	4.50
Pdh Tj = 12°C	7.00 kW	6.80 kW
COP Tj = 12°C	4.65	4.50
Pdh Tj = Tbiv	15.60 kW	13.80 kW

COP Tj = Tbiv	2.50	1.65
Pdh Tj = TOL	16.00 kW	12.10 kW
COP Tj = TOL	2.40	1.50
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	36 W	36 W
PTO	0 W	0 W
PSB	36 W	36 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	3.50 kW
Annual energy consumption Qhe	9382 kWh	10320 kWh