

Certificate

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10. Yutaki S 8.0HP (tri)

Certificate Holder Johnson Controls-Hitachi AirConditioning Spain
Ronda Shimizu, 1. Pol. Ind. Can Torrella
08233 Vacarisses, Barcelona
Spain
Reg. No. 041-K002-10
Certification body BRE Energy & Communications Division
Name of testing CEIS
laboratory
Subtype title 10. Yutaki S 8.0HP (tri)
Heat Pump Type Outdoor Air/Water
Refrigerant HFC-410a
Mass of refrigerant 5,000kg
Certification Date n/a

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

General Data

Power supply 3x400V 50Hz

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	20.00kW	20.00kW
El input	4.65kW	7.35kW
COP	4.30	2.72
Indoor water flow rate	3.43m ³ /h	2.14m ³ /h

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

Average Climate

EN 12102-1

Sound power level indoor	47dB(A)	47dB(A)
Sound power level outdoor	73dB(A)	73dB(A)

EN 14825

Low temperature

Medium temperature

η_s	152%	122%
P_{rated}	18.00kW	16.00kW
SCOP	3.88	3.13
T_{biv}	-7°C	-7°C
TOL	-10°C	-10°C
Pdh $T_j = -7^\circ C$	15.60kW	13.80kW
COPd $T_j = -7^\circ C$	2.50	1.65
Pdh $T_j = +2^\circ C$	9.50kW	8.40kW
COPd $T_j = +2^\circ C$	3.85	3.20
Pdh $T_j = +7^\circ C$	6.10kW	6.00kW
COPd $T_j = +7^\circ C$	5.40	4.50
Pdh $T_j = +12^\circ C$	7.00kW	6.80kW
COPd $T_j = +12^\circ C$	4.65	4.50
Pdh $T_j =$ bivalent temperature	15.60kW	13.80kW
COPd $T_j =$ bivalent temperature	2.50	1.65
Pdh $T_j =$ TOL	16.00kW	12.10kW
COPd $T_j =$ TOL	2.40	1.50
Cdh	0.90	0.90
WTOL	55°C	55°C
P_{OFF}	36W	36W
P_{TO}	0W	0W
P_{SB}	36W	36W
P_{CK}	0W	0W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater:	1.60kW	3.50kW
P_{SUP}		
Annual energy consumption Q_{HE}	9382kWh	10320kWh

RAS-8WHNPE RWM-8.0NE - Heating Only

General Data

Power supply 3x400V 50Hz

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	20.00kW	20.00kW
EI input	4.65kW	7.35kW
COP	4.30	2.72
Indoor water flow rate	3.43m ³ /h	2.14m ³ /h

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	

Average Climate

EN 12102-1		
Sound power level indoor	47dB(A)	47dB(A)
Sound power level outdoor	73dB(A)	73dB(A)

	Low temperature	Medium temperature
η_s	150%	120%
P_{rated}	18.00kW	16.00kW
SCOP	3.83	3.08
T_{biv}	-7°C	-7°C
TOL	-10°C	-10°C
Pdh $T_j = -7^\circ\text{C}$	15.60kW	13.80kW
COPd $T_j = -7^\circ\text{C}$	2.50	1.65
Pdh $T_j = +2^\circ\text{C}$	9.50kW	8.40kW
COPd $T_j = +2^\circ\text{C}$	3.85	3.20
Pdh $T_j = +7^\circ\text{C}$	6.10kW	6.00kW
COPd $T_j = +7^\circ\text{C}$	5.40	4.50
Pdh $T_j = +12^\circ\text{C}$	7.00kW	6.80kW
COPd $T_j = +12^\circ\text{C}$	4.65	4.50
Pdh $T_j = \text{bivalent temperature}$	15.60kW	13.80kW
COPd $T_j = \text{bivalent temperature}$	2.50	1.65
Pdh $T_j = \text{TOL}$	16.00kW	12.10kW
COPd $T_j = \text{TOL}$	2.40	1.50
Cdh	0.90	0.90
WTOL	55°C	55°C
P_{OFF}	36W	36W
P_{TO}	0W	0W
P_{SB}	36W	36W
P_{CK}	0W	0W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: P_{SUP}	1.60kW	3.50kW
Annual energy consumption Q_{HE}	9513kWh	10452kWh