

Certificate

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22. Yutaki M 4.0HP (tri)

Certificate Holder Johnson Controls-Hitachi AirConditioning Spain
Ronda Shimizu, 1. Pol. Ind. Can Torrella
08233 Vacarisses, Barcelona
Spain
Reg. No. 041-K002-22
Certification body BRE Energy & Communications Division
Name of testing CEIS
laboratory
Subtype title 22. Yutaki M 4.0HP (tri)
Heat Pump Type Outdoor Air/Water
Refrigerant HFC-410a
Mass of refrigerant 2,800kg
Certification Date n/a

RASM-4NE - with cooling kit

General Data

Power supply 3x400V 50Hz

Heating

EN 14511-2

		Low temperature	Medium temperature
Heat output	11.00kW		11.00kW
El input	2.20kW		3.67kW
COP	5.00		3.00
Indoor water flow rate	1.89m ³ /h		1.18m 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 outdoor	64dB(A)	64dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	189%	137%
P_{rated}	11.00kW	10.00kW
SCOP	4.80	3.50
T_{biv}	-7°C	-7°C
TOL	-10°C	-10°C
Pdh $T_j = -7^\circ C$	9.60kW	8.60kW
COPd $T_j = -7^\circ C$	2.74	1.80
Pdh $T_j = +2^\circ C$	5.84kW	5.23kW
COPd $T_j = +2^\circ C$	5.20	3.60
Pdh $T_j = +7^\circ C$	3.76kW	3.52kW
COPd $T_j = +7^\circ C$	5.80	4.80
Pdh $T_j = +12^\circ C$	3.70kW	3.60kW
COPd $T_j = +12^\circ C$	6.40	5.80
Pdh $T_j =$ bivalent temperature	9.60kW	8.60kW
COPd $T_j =$ bivalent temperature	2.74	1.80
Pdh $T_j =$ TOL	10.50kW	8.80kW
COPd $T_j =$ TOL	2.65	1.90
Cdh	0.90	0.90
WTOL	55°C	55°C
P_{OFF}	19W	19W
P_{TO}	0W	0W
P_{SB}	19W	19W
P_{CK}	0W	0W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater:	0.50kW	1.20kW
P_{SUP}		
Annual energy consumption Q_{HE}	4666kWh	5738kWh

RASM-4NE - Heating Only

General Data	
Power supply	3x400V 50Hz

Heating	
EN 14511-2	
	Low temperature
	Medium temperature

Heat output	11.00kW	11.00kW
El input	2.20kW	3.67kW
COP	5.00	3.00
Indoor water flow rate	1.89m ³ /h	1.18m 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 outdoor	64dB(A)	64dB(A)
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EN 14825

Low temperature

Medium temperature

η_s	186%	135%
P_{rated}	11.00kW	10.00kW
SCOP	4.73	3.45
T_{biv}	-7°C	-7°C
TOL	-10°C	-10°C
Pdh $T_j = -7^\circ\text{C}$	9.60kW	8.60kW
COPd $T_j = -7^\circ\text{C}$	2.74	1.80
Pdh $T_j = +2^\circ\text{C}$	5.84kW	5.23kW
COPd $T_j = +2^\circ\text{C}$	5.20	3.60
Pdh $T_j = +7^\circ\text{C}$	3.76kW	3.52kW
COPd $T_j = +7^\circ\text{C}$	5.80	4.80
Pdh $T_j = +12^\circ\text{C}$	3.70kW	3.60kW
COPd $T_j = +12^\circ\text{C}$	6.40	5.80
Pdh $T_j = \text{bivalent temperature}$	9.60kW	8.60kW
COPd $T_j = \text{bivalent temperature}$	2.74	1.80
Pdh $T_j = \text{TOL}$	10.50kW	8.80kW
COPd $T_j = \text{TOL}$	2.65	1.90
Cdh	0.90	0.90
WTOL	55°C	55°C
P_{OFF}	19W	19W
P_{TO}	0W	0W
P_{SB}	19W	19W
P_{CK}	0W	0W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater:	0.50kW	1.20kW
P_{SUP}		
Annual energy consumption Q_{HE}	4736kWh	5808kWh