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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 Global Limited		
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

Configure model	
Model name	RAS-8WHNPE RWM-8.0NE - Heating Only
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

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

Average Climate

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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

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COP $T_j = T_{biv}$	2.50	1.65
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	16.00 kW	12.10 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.40	1.50
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	55 °C	55 °C
P _{off}	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 Q _{he}	9513 kWh	10452 kWh

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

Configure model	
Model name	RAS-8WHNPE RWM-8.0NE - with cooling kit
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

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

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

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Pdh Tj = Tbiv	15.60 kW	13.80 kW
COP Tj = Tbiv	2.50	1.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	12.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.40	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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