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Login

Summary of	11. Yutaki S 10.0HP (tri)	Reg. No.	041-K002-11
Certificate Holder			
Name	me Johnson Controls-Hitachi AirConditioning Spain		
Address	Ronda Shimizu, 1. Pol. Ind. Can Torrella	Ronda Shimizu, 1. Pol. Ind. Can Torrella Zip 08233	
City	Vacarisses, Barcelona	Country	Spain
Certification Body	BRE Global Limited		
Subtype title	11. Yutaki S 10.0HP (tri)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	5 kg		



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Model: RAS-10WHNPE RWM-10.0NE - Heating Only

Configure model		
Model name RAS-10WHNPE RWM-10.0NE - 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		
Defrost test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	24.00 kW	24.00 kW
El input	5.59 kW	9.06 kW
СОР	4.29	2.65



Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	74 dB(A)	74 dB(A)

EN 14825		
Low temperature	Medium temperature	
141 %	116 %	
20.00 kW	18.00 kW	
3.60	2.98	
-7 °C	-7 °C	
-10 °C	-10 °C	
17.40 kW	15.60 kW	
2.30	1.65	
10.77 kW	9.50 kW	
3.60	3.10	
8.70 kW	8.30 kW	
5.10	4.35	
8.70 kW	8.50 kW	
4.90	4.60	
	Low temperature 141 % 20.00 kW 3.60 -7 °C -10 °C 17.40 kW 2.30 10.77 kW 3.60 8.70 kW 5.10 8.70 kW	



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	<u> </u>	<u> </u>
Pdh Tj = Tbiv	17.40 kW	15.60 kW
COP Tj = Tbiv	2.10	1.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	18.00 kW	14.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °C	55 °C
Poff	36 W	36 W
РТО	o w	0 W
PSB	36 W	36 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.70 kW	3.60 kW
Annual energy consumption Qhe	11410 kWh	12210 kWh

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Model: RAS-10WHNPE RWM-10.0NE - with cooling kit

Configure model		
Model name	RAS-10WHNPE RWM-10.0NE - 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	24.00 kW	24.00 kW
El input	5.59 kW	9.06 kW
СОР	4.29	2.65



Average Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	47 dB(A)	47 dB(A)		
Sound power level outdoor	74 dB(A)	74 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
η_{s}	142 %	118 %	
Prated	20.00 kW	18.00 kW	
SCOP	3.60	2.98	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	17.40 kW	15.60 kW	
COP Tj = -7°C	2.30	1.65	
Pdh Tj = +2°C	10.77 kW	9.50 kW	
COP Tj = +2°C	3.60	3.10	
Pdh Tj = +7°C	8.70 kW	8.30 kW	
$COP Tj = +7^{\circ}C$	5.10	4.35	
Pdh Tj = 12°C	8.70 kW	8.50 kW	
COP Tj = 12°C	4.90	4.60	



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Pdh Tj = Tbiv	17.40 kW	15.60 kW
COP Tj = Tbiv	2.10	1.65
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °C	55 °C
Poff	36 W	36 W
РТО	o w	o w
PSB	36 W	36 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.70 kW	3.60 kW
Annual energy consumption Qhe	11278 kWh	12078 kWh