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Summary of	37. Yutaki S (N1) 10.0HP R410A (3ph)	Reg. No.	041-K002-58		
Certificate Holder					
Name	Johnson Controls-Hitachi AirConditioning Spain	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	37. Yutaki S (N1) 10.0HP R410A (3ph)				
Heat Pump Type	Outdoor Air/Water				
Refrigerant	R410A				
Mass of Refrigerant	5.3 kg				
Certification Date	08.02.2022				
Testing basis	Heat Pump Keymark Scheme Rules Rev 09				



Model: 01. RAS-10WHNPE RWM-10.0N1E - Heating Only

Configure model		
Model name	01. RAS-10WHNPE RWM-10.0N1E - 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	Power supply 3x400V 50Hz		

Heating

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

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

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	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	141 %	116 %
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
$COP Tj = -7^{\circ}C$	2.30	1.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = $+2$ °C	10.77 kW	9.50 kW
COP Tj = +2°C	3.60	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	8.70 kW	8.30 kW
COP Tj = +7°C	5.10	4.35
Cdh Tj = +7 °C	0.900	0.900

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Pdh Tj = 12°C	8.70 kW	8.50 kW
COP Tj = 12°C	4.90	4.60
Cdh Tj = +12 °C	0.900	0.900
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	0.900	0.900
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	2.00 kW	4.00 kW
Annual energy consumption Qhe	11410 kWh	12210 kWh



Model: 02. RAS-10WHNPE RWM-10.0N1E - with cooling kit

Configure model		
Model name	02. RAS-10WHNPE RWM-10.0N1E - with cooling kit	
Application	Heating (medium temp)	
Units Indoor + Outdoor		
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C	

General Data		
Power supply	3x400V 50Hz	

Heating

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

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

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	60 dB(A)	60 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	
Cdh Tj = -7 °C	0.900	0.900	
Pdh Tj = +2°C	10.77 kW	9.50 kW	
COP Tj = +2°C	3.60	3.10	
Cdh Tj = +2 °C	0.900	0.900	
Pdh Tj = +7°C	8.70 kW	8.30 kW	
COP Tj = +7°C	5.10	4.35	
Cdh Tj = +7 °C	0.900	0.900	

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	1	
Pdh Tj = 12°C	8.70 kW	8.50 kW
COP Tj = 12°C	4.90	4.60
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	17.40 kW	15.60 kW
COP Tj = Tbiv	2.30	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	0.900	0.900
WTOL	55 °C	55 °C
Poff	36 W	36 W
РТО	0 W	0 W
PSB	36 W	36 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.00 kW	4.00 kW
Annual energy consumption Qhe	11278 kWh	12078 kWh

Cooling





EN 14511-2				
	+7°C/+12°C	+18°C/+23°C		
El input	6.23 kW	5.54 kW		
Cooling capacity	17.50	20.00		
EER	2.81	3.61		

EN 14825



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	+7°C/+12°C	+18°C/+23°C
Pdesignc	17.50 kW	20.00 kW
SEER	4.06	5.44
Pdc Tj = 35°C	17.50 kW	20.00 kW
EER Tj = 35°C	2.81	3.61
Pdc Tj = 30°C	12.90 kW	14.74 kW
EER Tj = 30°C	3.53	5.50
Cdc	0.900	0.900
Pdc Tj = 25°C	8.20 kW	8.20 kW
EER Tj = 25°C	4.87	6.50
Cdc	0.900	0.900
Pdc Tj = 20°C	8.00 kW	8.50 kW
EER Tj = 20°C	5.50	6.60
Cdc	0.900	0.900
Poff	36 W	36 W
РТО	o w	0 W
PSB	36 W	36 W
РСК	0 W	0 W
Annual energy consumption Qce	1510 kWh	1286 kWh