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Summary of	10. Yutaki M 2.0HP R32	Reg. No.	041-K002-38	
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 Energy & Communications Division			
Name of testing laboratory	CEIS			
Subtype title	10. Yutaki M 2.0HP R32			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R32			
Mass Of Refrigerant	1.2 kg			
Certification Date	02.08.2019			



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Model: 01. RASM-2VRE - Heating Only

General Data		
Power supply	1x230V 50Hz	

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	181 %	133 %	
Prated	4.00 kW	4.00 kW	
SCOP	4.60	3.40	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	3.54 kW	3.50 kW	
$COP Tj = -7^{\circ}C$	3.20	2.13	
Cdh	1.00	1.00	
Pdh Tj = +2°C	2.35 kW	2.10 kW	
COP Tj = +2°C	4.80	3.35	

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Cdh	1.00	1.00
Pdh Tj = +7°C	3.00 kW	2.43 kW
$COP Tj = +7^{\circ}C$	6.20	5.15
Cdh	0.90	0.90
Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	8.30	6.80
Cdh	0.90	0.90
Pdh Tj = Tbiv	3.54 kW	3.50 kW
COP Tj = Tbiv	3.20	2.13
Pdh Tj = TOL	4.00 kW	3.10 kW
COP Tj = TOL	2.75	1.90
WTOL	55 °C	55 °C
Poff	12 W	12 W
РТО	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	1798 kWh	2401 kWh

Heating



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EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.30 kW	4.30 kW
El input	0.82 kW	1.43 kW
СОР	5.25	3.00
Indoor water flow rate	0.77 m³/h	0.46 m³/h

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



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Model: 02. RASM-2VRE - with cooling kit

General Data	
Power supply	1x230V 50Hz

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	186 %	136 %	
Prated	4.00 kW	4.00 kW	
SCOP	4.73	3.48	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	3.54 kW	3.50 kW	
$COPTj = -7^{\circ}C$	3.20	2.13	
Cdh	1.00	1.00	
Pdh Tj = +2°C	2.35 kW	2.10 kW	
$COPTj = +2^{\circ}C$	4.80	3.35	

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This information was generated by the HP KEYMARK database on 17 Dec 2020 Cdh 1.00 1.00 Pdh Tj = $+7^{\circ}$ C 3.00 kW 2.43 kW $COPTi = +7^{\circ}C$ 6.20 5.15 Cdh 0.90 0.90 Pdh Tj = 12° C 3.05 kW 2.80 kW $COP Tj = 12^{\circ}C$ 8.30 6.80 Cdh 0.90 0.90 Pdh Tj = Tbiv3.54 kW 3.50 kW COP Tj = Tbiv3.20 2.13 Pdh Tj = TOL4.00 kW 3.10 kW COP Tj = TOL2.75 1.90 55 °C 55 °C WTOL Poff 12 W 12 W PTO 0 W 0 W **PSB** 12 W 12 W **PCK** 0 W 0 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 0.00 kW 0.90 kW Annual energy consumption Qhe 1754 kWh 2357 kWh

Heating



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EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.30 kW	4.30 kW
El input	0.82 kW	1.43 kW
СОР	5.25	3.00
Indoor water flow rate	0.77 m³/h	0.46 m³/h

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

Cooling

EN 14511-2			
	+7°C/+12°C	+18°C/+23°C	
El input	1 kW	1.02 kW	
Cooling capacity	4	5.5	
EER	4	5.4	





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EN 14825			
	+7°C/+12°C	+18°C/+23°C	
Pdesignc	4 kW	5.5 kW	
SEER	5.57	8.04	
Pdc Tj = 35°C	4 kW	5.5 kW	
EER Tj = 35°C	4	5.4	
Pdc Tj = 30°C	2.95 kW	4.05 kW	
EER Tj = 30°C	5	7.2	
Cdc	1	1	
Pdc Tj = 25°C	2.05 kW	2.61 kW	
EER Tj = 25°C	6.45	9.6	
Cdc	0.9	0.9	
Pdc Tj = 20°C	2.88 kW	2.51 kW	
EER Tj = 20°C	8	10.3	
Cdc	0.9	0.9	
Poff	12 W	12 W	
РТО	0 W	0 W	
PSB	12 W	12 W	
PCK	0 W	0 W	
Annual energy consumption Qce	431 kWh	410 kWh	