

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	11. Yutaki M 3.0HP R32	Reg. No.	041-K002-39
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	11. Yutaki M 3.0HP R32		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	1.3 kg		
Certification Date	02.08.2019		

Model: 01. RASM-3VRE - Heating Only

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.74 kW	2.86 kW
COP	4.60	2.80
Indoor water flow rate	1.37 m ³ /h	0.86 m ³ /h

EN 14511-4

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

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	67 dB(A)	69 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	177 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.50	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.65	1.84
Cdh	1.00	1.00
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.30	3.10
Cdh	1.00	1.00
Pdh Tj = +7°C	3.20 kW	2.00 kW
COP Tj = +7°C	7.00	4.65
Cdh	0.90	0.90

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Pdh Tj = 12°C	3.50 kW	2.20 kW
COP Tj = 12°C	9.70	6.55
Cdh	0.90	0.90
Pdh Tj = Tbiv	5.90 kW	5.10 kW
COP Tj = Tbiv	2.65	1.84
Pdh Tj = TOL	6.40 kW	5.00 kW
COP Tj = TOL	2.30	1.50
WTOL	55 °C	55 °C
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	0.60 kW	1.50 kW
Annual energy consumption Qhe	3068 kWh	3724 kWh

Model: 02. RASM-3VRE - with cooling kit

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.74 kW	2.86 kW
COP	4.60	2.80
Indoor water flow rate	1.37 m ³ /h	0.86 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	67 dB(A)	69 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	179 %	127 %
Prated	7.00 kW	6.00 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.65	1.84
Cdh	1.00	1.00
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.30	3.10
Cdh	1.00	1.00
Pdh Tj = +7°C	3.20 kW	2.00 kW
COP Tj = +7°C	7.00	4.65
Cdh	0.90	0.90

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Pdh Tj = 12°C	3.50 kW	2.20 kW
COP Tj = 12°C	9.70	6.55
Cdh	0.90	0.90
Pdh Tj = Tbiv	5.90 kW	5.10 kW
COP Tj = Tbiv	2.65	1.84
Pdh Tj = TOL	6.40 kW	5.00 kW
COP Tj = TOL	2.30	1.50
WTOL	55 °C	55 °C
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	0.60 kW	1.50 kW
Annual energy consumption Qhe	3024 kWh	3680 kWh

Cooling

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EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	1.94 kW	1.4 kW
Cooling capacity	6.5	7
EER	3.35	5

EN 14825

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	+7°C/+12°C	+18°C/+23°C
P _{designc}	6.5 kW	7 kW
SEER	5.27	8.35
P _{dc} T _j = 35°C	6.5 kW	7 kW
EER T _j = 35°C	3.35	5
P _{dc} T _j = 30°C	4.79 kW	5.16 kW
EER T _j = 30°C	4.5	6.4
C _{dc}	1	1
P _{dc} T _j = 25°C	2.9 kW	3.32 kW
EER T _j = 25°C	6	10
C _{dc}	1	1
P _{dc} T _j = 20°C	3.4 kW	3.6 kW
EER T _j = 20°C	7.5	13.5
C _{dc}	0.9	0.9
P _{off}	12 W	12 W
PTO	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	740 kWh	503 kWh