

Subtype 11. Yutaki M 3.0HP R32

Certificate Holder	Johnson Controls-Hitachi AirConditioning Spain
Address	Ronda Shimizu, 1. Pol. Ind. Can Torrella
ZIP	08233
City	Vacarisses, Barcelona
Country	ES
Certification Body	BRE
Subtype title	11. Yutaki M 3.0HP R32
Registration number	041-K002-39
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

Model name	01. RASM-3VRE - Heating Only
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Starting and operating test	passed

EN 14511-2 | Heating

	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

EN 12102-1 | Average Climate

	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 | Average Climate

	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 Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.30	3.10
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.20 kW	2.00 kW
COP Tj = +7°C	7.00	4.65

Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	3.50 kW	2.20 kW
COP Tj = 12°C	9.70	6.55
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.90 kW	5.10 kW
COP Tj = Tbiv	2.65	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.40 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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

Model name	02. RASM-3VRE - with cooling kit
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water
EN 14511-4 | Heating

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

EN 14511-2 | Heating

	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

EN 14511-2 | Cooling

	+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 12102-1 | Average Climate

	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 | Average Climate

	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 Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.30	3.10
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.20 kW	2.00 kW
COP Tj = +7°C	7.00	4.65
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	3.50 kW	2.20 kW
COP Tj = 12°C	9.70	6.55
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.90 kW	5.10 kW
COP Tj = Tbiv	2.65	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.40 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.5 kW	7 kW
SEER	5.27	8.35
Pdc Tj = 35°C	6.5 kW	7 kW
EER Tj = 35°C	3.35	5
Pdc Tj = 30°C	4.79 kW	5.16 kW
EER Tj = 30°C	4.5	6.4
Cdc Tj = 30 °C	1	1
Pdc Tj = 25°C	2.9 kW	3.32 kW
EER Tj = 25°C	6	10
Cdc Tj = 25 °C	1	1
Pdc Tj = 20°C	3.4 kW	3.6 kW
EER Tj = 20°C	7.5	13.5
Cdc Tj = 20 °C	0.9	0.9
Poff	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
