

## Subtype Yutaki M 5.0HP R32 (mono)

Certificate Holder	Johnson Controls-Hitachi AirConditioning Spain
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Country	ES
Certification Body	BRE
Subtype title	Yutaki M 5.0HP R32 (mono)
Registration number	041-K002-61
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	3 kg
Certification Date	14.10.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09
Testing laboratory	Centro de Ensayos, Innovación y Servicios (CEIS), ES

## Model RASM-5VR1E - heating only

Model name	RASM-5VR1E - 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
Defrost test	passed
Starting and operating test	passed

## EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.00 kW	12.00 kW
El input	2.67 kW	4.71 kW
COP	4.50	2.55

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	63 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	175 %	133 %
Prated	12.00 kW	12.00 kW
SCOP	4.45	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.70 kW	10.70 kW
COP Tj = -7°C	2.95	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.51 kW	6.51 kW
COP Tj = +2°C	4.38	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.50 kW	4.79 kW
COP Tj = +7°C	5.70	4.30

Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.04 kW	4.68 kW
COP Tj = 12°C	8.20	6.15
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.70 kW	10.70 kW
COP Tj = Tbiv	2.95	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.70 kW	10.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	35 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.30 kW	1.30 kW
Annual energy consumption Qhe	5615 kWh	7357 kWh

**Model RASM-5VR1E - with cooling kit**

Model name	RASM-5VR1E - 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
Defrost test	passed
Starting and operating test	passed

**EN 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	12.00 kW	12.00 kW
El input	2.67 kW	4.71 kW
COP	4.50	2.55

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	3.64 kW	2.76 kW
Cooling capacity	12.00	13.00
EER	3.30	4.71

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	63 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	177 %	134 %
Prated	12.00 kW	12.00 kW
SCOP	4.45	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	10.70 kW	10.70 kW
COP Tj = -7°C	2.95	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.51 kW	6.51 kW
COP Tj = +2°C	4.38	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.50 kW	4.79 kW
COP Tj = +7°C	5.70	4.30
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.04 kW	4.68 kW
COP Tj = 12°C	8.20	6.15
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.70 kW	10.70 kW
COP Tj = Tbiv	2.95	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.70 kW	10.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	35 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.30 kW	1.30 kW
Annual energy consumption Qhe	5560 kWh	7302 kWh

### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.00 kW	13.00 kW
SEER	4.60	7.93
Pdc Tj = 35°C	12.00 kW	13.00 kW
EER Tj = 35°C	3.30	4.71
Cdc Tj = 35 °C		
Pdc Tj = 30°C	8.84 kW	9.58 kW
EER Tj = 30°C	4.16	6.43
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.68 kW	6.16 kW
EER Tj = 25°C	5.18	9.22
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	3.55 kW	4.87 kW
EER Tj = 20°C	5.70	13.33
Cdc Tj = 20 °C	0.900	0.900
Poff	15 W	15 W

PTO	0 W	0 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	912 kWh	574 kWh

**Model RASM-5VRW1E & HWM-WE - heating only**

Model name	RASM-5VRW1E & HWM-WE - heating only
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

**General data**

Power supply	n/a
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
Defrost test	passed
Starting and operating test	passed

**EN 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	12.00 kW	12.00 kW
El input	2.67 kW	4.71 kW
COP	4.50	2.55

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	175 %	133 %
Prated	12.00 kW	12.00 kW
SCOP	4.45	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.70 kW	10.70 kW
COP Tj = -7°C	2.95	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.51 kW	6.51 kW
COP Tj = +2°C	4.38	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.50 kW	4.79 kW

COP Tj = +7°C	5.70	4.30
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.04 kW	4.68 kW
COP Tj = 12°C	8.20	6.15
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.70 kW	10.70 kW
COP Tj = Tbiv	2.95	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.70 kW	10.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	35 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.30 kW	1.30 kW
Annual energy consumption Qhe	5615 kWh	7357 kWh

**Model RASM-5VRW1E & HWM-WE - with cooling kit**

Model name	RASM-5VRW1E & HWM-WE - with cooling kit
Application	Heating (medium temp)
Units	Indoor, 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	n/a
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
Defrost test	passed
Starting and operating test	passed

**EN 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	12.00 kW	12.00 kW
El input	2.67 kW	4.71 kW
COP	4.50	2.55

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	3.64 kW	2.76 kW
Cooling capacity	12.00	13.00
EER	3.30	4.71

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	177 %	134 %
Prated	12.00 kW	12.00 kW
SCOP	4.45	3.40
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.70 kW	10.70 kW
COP Tj = -7°C	2.95	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.51 kW	6.51 kW
COP Tj = +2°C	4.38	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.50 kW	4.79 kW
COP Tj = +7°C	5.70	4.30
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.04 kW	4.68 kW
COP Tj = 12°C	8.20	6.15
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.70 kW	10.70 kW
COP Tj = Tbiv	2.95	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.70 kW	10.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	35 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.30 kW	1.30 kW
Annual energy consumption Qhe	5560 kWh	7302 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.00 kW	13.00 kW
SEER	4.60	7.93
Pdc Tj = 35°C	12.00 kW	13.00 kW
EER Tj = 35°C	3.30	4.71
Cdc Tj = 35 °C		
Pdc Tj = 30°C	8.84 kW	9.58 kW
EER Tj = 30°C	4.16	6.43
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.68 kW	6.16 kW
EER Tj = 25°C	5.18	9.22
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	3.55 kW	4.87 kW
EER Tj = 20°C	5.70	13.33
Cdc Tj = 20 °C	0.900	0.900

Poff	15 W	15 W
PTO	0 W	0 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	912 kWh	574 kWh

**Model RASM-5VRW1E & HWD-WE-220S - heating only**

Model name	RASM-5VRW1E & HWD-WE-220S - heating only
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

**General data**

Power supply	n/a
Off-peak product	n/a

**Outdoor Air/Water**
**EN 16147 | Average Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	110 %
COP	2.68
Heating up time	1:10 h:min
Standby power input	41.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	288 l

**EN 14511-4 | Heating**

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

**EN 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	12.00 kW	12.00 kW
El input	2.67 kW	4.71 kW
COP	4.50	2.55

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	175 %	133 %
Prated	12.00 kW	12.00 kW

SCOP	4.45	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.70 kW	10.70 kW
COP Tj = -7°C	2.95	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.51 kW	6.51 kW
COP Tj = +2°C	4.38	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.50 kW	4.79 kW
COP Tj = +7°C	5.70	4.30
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.04 kW	4.68 kW
COP Tj = 12°C	8.20	6.15
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.70 kW	10.70 kW
COP Tj = Tbiv	2.95	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.70 kW	10.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	35 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.30 kW	1.30 kW
Annual energy consumption Qhe	5615 kWh	7357 kWh

**Model RASM-5VRW1E & HWD-WE-220S-K - heating only**

Model name	RASM-5VRW1E & HWD-WE-220S-K - heating only
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

**General data**

Power supply	n/a
Off-peak product	n/a

**Outdoor Air/Water**
**EN 16147 | Average Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	110 %
COP	2.68
Heating up time	1:10 h:min
Standby power input	41.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	288 l

**EN 14511-4 | Heating**

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

**EN 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	12.00 kW	12.00 kW
El input	2.67 kW	4.71 kW
COP	4.50	2.55

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	175 %	133 %
Prated	12.00 kW	12.00 kW

SCOP	4.45	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.70 kW	10.70 kW
COP Tj = -7°C	2.95	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.51 kW	6.51 kW
COP Tj = +2°C	4.38	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.50 kW	4.79 kW
COP Tj = +7°C	5.70	4.30
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.04 kW	4.68 kW
COP Tj = 12°C	8.20	6.15
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.70 kW	10.70 kW
COP Tj = Tbiv	2.95	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.70 kW	10.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	35 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.30 kW	1.30 kW
Annual energy consumption Qhe	5615 kWh	7357 kWh

**Model RASM-5VRW1E & HWD-WE-220S - with cooling kit**

Model name	RASM-5VRW1E & HWD-WE-220S - with cooling kit
Application	Heating + DHW + low temp
Units	Indoor, 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	n/a
Off-peak product	n/a

**Outdoor Air/Water**
**EN 16147 | Average Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	110 %
COP	2.68
Heating up time	1:10 h:min
Standby power input	41.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	288 l

**EN 14511-4 | Heating**

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

**EN 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	12.00 kW	12.00 kW
El input	2.67 kW	4.71 kW
COP	4.50	2.55

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	3.64 kW	2.76 kW
Cooling capacity	12.00	13.00
EER	3.30	4.71

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
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Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	177 %	134 %
Prated	12.00 kW	12.00 kW
SCOP	4.45	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.70 kW	10.70 kW
COP Tj = -7°C	2.95	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.51 kW	6.51 kW
COP Tj = +2°C	4.38	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.50 kW	4.79 kW
COP Tj = +7°C	5.70	4.30
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.04 kW	4.68 kW
COP Tj = 12°C	8.20	6.15
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.70 kW	10.70 kW
COP Tj = Tbiv	2.95	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.70 kW	10.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	35 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.30 kW	1.30 kW
Annual energy consumption Qhe	5560 kWh	7302 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.00 kW	13.00 kW
SEER	4.60	7.93
Pdc Tj = 35°C	12.00 kW	13.00 kW
EER Tj = 35°C	3.30	4.71
Cdc Tj = 35 °C		

Pdc Tj = 30°C	8.84 kW	9.58 kW
EER Tj = 30°C	4.16	6.43
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.68 kW	6.16 kW
EER Tj = 25°C	5.18	9.22
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	3.55 kW	4.87 kW
EER Tj = 20°C	5.70	13.33
Cdc Tj = 20 °C	0.900	0.900
Poff	15 W	15 W
PTO	0 W	0 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	912 kWh	574 kWh