

Subtype Yutaki M 5.0HP R32 (tri)

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 Global Limited
Subtype title	Yutaki M 5.0HP R32 (tri)
Registration number	041-K002-62
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

Model RASM-5R1E - heating only

Model name	RASM-5R1E - 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	3x400V 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 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
η_s	162 %	128 %
Prated	12.00 kW	12.00 kW
SCOP	4.13	3.26
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.70 kW	10.70 kW
COP Tj = -7°C	2.94	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.50 kW	6.50 kW
COP Tj = +2°C	4.36	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.20 kW	6.30 kW
COP Tj = +7°C	5.03	4.06
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.80 kW	4.50 kW
COP Tj = 12°C	5.95	5.23
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.70 kW	10.70 kW
COP Tj = Tbiv	2.94	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	29 W	29 W
PTO	0 W	0 W
PSB	29 W	29 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.40 kW	1.40 kW
Annual energy consumption Qhe	6051 kWh	7654 kWh

Model RASM-5R1E - with cooling kit

Model name	RASM-5R1E - 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	3x400V 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 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
η_s	165 %	129 %
Prated	12.00 kW	12.00 kW
SCOP	4.13	3.26
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.70 kW	10.70 kW
COP Tj = -7°C	2.94	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.50 kW	6.50 kW
COP Tj = +2°C	4.36	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.20 kW	6.30 kW
COP Tj = +7°C	5.03	4.06
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.80 kW	4.50 kW
COP Tj = 12°C	5.95	5.23
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.70 kW	10.70 kW
COP Tj = Tbiv	2.94	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	29 W	29 W
PTO	0 W	0 W
PSB	29 W	29 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.40 kW	1.40 kW
Annual energy consumption Qhe	5945 kWh	7548 kWh

Model RASM-5RW1E & HWM-WE - heating only

Model name	RASM-5RW1E & 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 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
η_s	162 %	128 %
Prated	12.00 kW	12.00 kW
SCOP	4.13	3.26
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.70 kW	10.70 kW
COP Tj = -7°C	2.94	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.50 kW	6.50 kW
COP Tj = +2°C	4.36	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.20 kW	6.30 kW
COP Tj = +7°C	5.03	4.06
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.80 kW	4.50 kW
COP Tj = 12°C	5.95	5.23
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.70 kW	10.70 kW
COP Tj = Tbiv	2.94	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	29 W	29 W
PTO	0 W	0 W
PSB	29 W	29 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.40 kW	1.40 kW
Annual energy consumption Qhe	6051 kWh	7654 kWh

Model RASM-5RW1E & HWM-WE - with cooling kit

Model name	RASM-5RW1E & 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 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
η_s	165 %	129 %
Prated	12.00 kW	12.00 kW
SCOP	4.13	3.26
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.70 kW	10.70 kW
COP Tj = -7°C	2.94	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.50 kW	6.50 kW
COP Tj = +2°C	4.36	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.20 kW	6.30 kW
COP Tj = +7°C	5.03	4.06
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.80 kW	4.50 kW
COP Tj = 12°C	5.95	5.23
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.70 kW	10.70 kW

COP $T_j = T_{biv}$	2.94	2.35
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	10.70 kW	10.70 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.47	2.03
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.900	0.900
WTOL	35 °C	55 °C
P _{off}	29 W	29 W
PTO	0 W	0 W
PSB	29 W	29 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.40 kW	1.40 kW
Annual energy consumption Q _{he}	5945 kWh	7548 kWh

Model RASM-5RW1E & HWD-WE-220S - heating only

Model name	RASM-5RW1E & 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 η_{DHW}	95 %
COP	2.30
Heating up time	1:10 h:min
Standby power input	56.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	288 l

Model RASM-5RW1E & HWD-WE-220S-K - heating only

Model name	RASM-5RW1E & 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 η_{DHW}	95 %
COP	2.30
Heating up time	1:10 h:min
Standby power input	56.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	288 l

Model RASM-5RW1E & HWD-WE-220S - with cooling kit

Model name	RASM-5RW1E & 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 η_{DHW}	95 %
COP	2.30
Heating up time	1:10 h:min
Standby power input	56.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	288 l