

Subtype Yutaki M 7.0HP R32 (tri)

Certificate Holder	Johnson Controls-Hitachi AirConditioning Spain
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ZIP	08233
City	Vacarisses, Barcelona
Country	ES
Certification Body	BRE Global Limited
Subtype title	Yutaki M 7.0HP R32 (tri)
Registration number	041-K002-65
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-7R1E - heating only

Model name	RASM-7R1E - 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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	16.00 kW	16.00 kW
EI input	3.62 kW	5.84 kW
COP	4.42	2.74

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	156 %	125 %
Prated	18.00 kW	18.00 kW
SCOP	3.97	3.21
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	16.00 kW	16.00 kW
COP Tj = -7°C	2.82	2.20
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	9.70 kW	9.70 kW
COP Tj = +2°C	3.88	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.21 kW	6.30 kW
COP Tj = +7°C	5.03	4.12

Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.79 kW	4.50 kW
COP Tj = 12°C	5.95	5.26
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	2.82	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	1.90
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	2.10 kW	2.10 kW
Annual energy consumption Qhe	9424 kWh	11651 kWh

Model RASM-7R1E - with cooling kit

Model name	RASM-7R1E - 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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	16.00 kW	16.00 kW
El input	3.62 kW	5.84 kW
COP	4.42	2.74

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.43 kW	3.26 kW
Cooling capacity	14.00	15.00
EER	3.16	4.60

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	157 %	126 %
Prated	18.00 kW	18.00 kW
SCOP	3.97	3.21
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	16.00 kW	16.00 kW
COP Tj = -7°C	2.82	2.20
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	9.70 kW	9.70 kW
COP Tj = +2°C	3.88	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.21 kW	6.30 kW
COP Tj = +7°C	5.03	4.12
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.79 kW	4.50 kW
COP Tj = 12°C	5.95	5.26
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	2.82	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	1.90
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	2.10 kW	2.10 kW
Annual energy consumption Qhe	9318 kWh	11545 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	14.00 kW	15.00 kW
SEER	4.08	6.78
Pdc Tj = 35°C	14.00 kW	15.00 kW
EER Tj = 35°C	3.16	4.60
Cdc Tj = 35 °C		
Pdc Tj = 30°C	10.32 kW	11.05 kW
EER Tj = 30°C	3.97	6.03
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	6.62 kW	7.11 kW
EER Tj = 25°C	4.61	7.87
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	3.19 kW	4.90 kW
EER Tj = 20°C	4.63	10.39
Cdc Tj = 20 °C	0.900	0.900
Poff	29 W	29 W

PTO	0 W	0 W
PSB	29 W	29 W
PCK	0 W	0 W
Annual energy consumption Qce	1201 kWh	774 kWh

Model RASM-7RW1E & HWM-WE - heating only

Model name	RASM-7RW1E & 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	16.00 kW	16.00 kW
EI input	3.62 kW	5.84 kW
COP	4.42	2.74

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	156 %	125 %
P _{rated}	18.00 kW	18.00 kW
SCOP	3.97	3.21
T _{biv}	-7 °C	-7 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j = -7°C}	16.00 kW	16.00 kW
COP T _j = -7°C	2.82	2.20
C _{dh T_j = -7 °C}	0.900	0.900
P _{dh T_j = +2°C}	9.70 kW	9.70 kW
COP T _j = +2°C	3.88	3.10
C _{dh T_j = +2 °C}	0.900	0.900
P _{dh T_j = +7°C}	6.21 kW	6.30 kW

COP Tj = +7°C	5.03	4.12
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.79 kW	4.50 kW
COP Tj = 12°C	5.95	5.26
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	2.82	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	1.90
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	2.10 kW	2.10 kW
Annual energy consumption Qhe	9424 kWh	11651 kWh

Model RASM-7RW1E & HWM-WE - with cooling kit

Model name	RASM-7RW1E & 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	16.00 kW	16.00 kW
El input	3.62 kW	5.84 kW
COP	4.42	2.74

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.43 kW	3.26 kW
Cooling capacity	14.00	15.00
EER	3.16	4.60

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	157 %	126 %
Prated	18.00 kW	18.00 kW
SCOP	3.97	3.21
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	16.00 kW	16.00 kW
COP Tj = -7°C	2.82	2.20
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	9.70 kW	9.70 kW
COP Tj = +2°C	3.88	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.21 kW	6.30 kW
COP Tj = +7°C	5.03	4.12
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.79 kW	4.50 kW
COP Tj = 12°C	5.95	5.26
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	2.82	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	1.90
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	2.10 kW	2.10 kW
Annual energy consumption Qhe	9318 kWh	11545 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	14.00 kW	15.00 kW
SEER	4.08	6.78
Pdc Tj = 35°C	14.00 kW	15.00 kW
EER Tj = 35°C	3.16	4.60
Cdc Tj = 35 °C		
Pdc Tj = 30°C	10.32 kW	11.05 kW
EER Tj = 30°C	3.97	6.03
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	6.62 kW	7.11 kW
EER Tj = 25°C	4.61	7.87
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	3.19 kW	4.90 kW
EER Tj = 20°C	4.63	10.39
Cdc Tj = 20 °C	0.900	0.900

Poff	29 W	29 W
PTO	0 W	0 W
PSB	29 W	29 W
PCK	0 W	0 W
Annual energy consumption Qce	1201 kWh	774 kWh

Model RASM-7RW1E & HWD-WE-220S - heating only

Model name	RASM-7RW1E & 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

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	16.00 kW	16.00 kW
El input	3.62 kW	5.84 kW
COP	4.42	2.74

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	156 %	125 %
Prated	18.00 kW	18.00 kW

SCOP	3.97	3.21
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	16.00 kW	16.00 kW
COP Tj = -7°C	2.82	2.20
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	9.70 kW	9.70 kW
COP Tj = +2°C	3.88	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.21 kW	6.30 kW
COP Tj = +7°C	5.03	4.12
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.79 kW	4.50 kW
COP Tj = 12°C	5.95	5.26
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	2.82	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	1.90
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	2.10 kW	2.10 kW
Annual energy consumption Qhe	9424 kWh	11651 kWh

Model RASM-7RW1E & HWD-WE-220S-K - heating only

Model name	RASM-7RW1E & 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

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	16.00 kW	16.00 kW
El input	3.62 kW	5.84 kW
COP	4.42	2.74

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	156 %	125 %
Prated	18.00 kW	18.00 kW

SCOP	3.97	3.21
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	16.00 kW	16.00 kW
COP Tj = -7°C	2.82	2.20
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	9.70 kW	9.70 kW
COP Tj = +2°C	3.88	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.21 kW	6.30 kW
COP Tj = +7°C	5.03	4.12
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.79 kW	4.50 kW
COP Tj = 12°C	5.95	5.26
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	2.82	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	1.90
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	2.10 kW	2.10 kW
Annual energy consumption Qhe	9424 kWh	11651 kWh

Model RASM-7RW1E & HWD-WE-220S - with cooling kit

Model name	RASM-7RW1E & 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 ηDHW	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

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	16.00 kW	16.00 kW
El input	3.62 kW	5.84 kW
COP	4.42	2.74

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.43 kW	3.26 kW
Cooling capacity	14.00	15.00
EER	3.16	4.60

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	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	157 %	126 %
P _{rated}	18.00 kW	18.00 kW
SCOP	3.97	3.21
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh Tj = -7°C}	16.00 kW	16.00 kW
COP T _j = -7°C	2.82	2.20
C _{dh Tj = -7 °C}	0.900	0.900
P _{dh Tj = +2°C}	9.70 kW	9.70 kW
COP T _j = +2°C	3.88	3.10
C _{dh Tj = +2 °C}	0.900	0.900
P _{dh Tj = +7°C}	6.21 kW	6.30 kW
COP T _j = +7°C	5.03	4.12
C _{dh Tj = +7 °C}	0.900	0.900
P _{dh Tj = 12°C}	4.79 kW	4.50 kW
COP T _j = 12°C	5.95	5.26
C _{dh Tj = +12 °C}	0.900	0.900
P _{dh Tj = T_{biv}}	16.00 kW	16.00 kW
COP T _j = T _{biv}	2.82	2.20
P _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	16.00 kW	16.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.47	1.90
C _{dh Tj = TOL or P_{dh Tj = 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	2.10 kW	2.10 kW
Annual energy consumption Q _{he}	9318 kWh	11545 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	14.00 kW	15.00 kW
SEER	4.08	6.78
P _{dc Tj = 35°C}	14.00 kW	15.00 kW
EER T _j = 35°C	3.16	4.60
C _{dc Tj = 35 °C}		

Pdc Tj = 30°C	10.32 kW	11.05 kW
EER Tj = 30°C	3.97	6.03
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	6.62 kW	7.11 kW
EER Tj = 25°C	4.61	7.87
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	3.19 kW	4.90 kW
EER Tj = 20°C	4.63	10.39
Cdc Tj = 20 °C	0.900	0.900
Poff	29 W	29 W
PTO	0 W	0 W
PSB	29 W	29 W
PCK	0 W	0 W
Annual energy consumption Qce	1201 kWh	774 kWh