

## Subtype 20. YUTAKI M (N2) 3HP R32

Certificate Holder	Bosch Home Comfort Barcelona S.A.U.
Address	Ronda Shimizu, 1. Pol. Ind. Can Torrella
ZIP	08233
City	Vacarisses, Barcelona
Country	ES
Certification Body	BRE
Subtype title	20. YUTAKI M (N2) 3HP R32
Registration number	041-K002-67
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1 kg
Certification Date	13.09.2024
Testing basis	Heat Pump Keymark Scheme Rules v14
Testing laboratory	Centro de Ensayos, Innovación y Servicios (CEIS), ES

## Model RASM-3VR2E - Heating only

Model name	RASM-3VR2E - 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	8.00 kW	8.00 kW
El input	1.73 kW	2.86 kW
COP	4.60	2.80

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	51 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	175 %	125 %
Prated	6.70 kW	5.80 kW
SCOP	4.46	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	2.70	1.85
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.30	3.05
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.20 kW	2.43 kW
COP Tj = +7°C	6.60	4.73

Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.50 kW	2.80 kW
COP Tj = 12°C	9.70	7.51
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.90 kW	5.10 kW
COP Tj = Tbiv	2.70	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
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	1.10 kW	0.80 kW
Annual energy consumption Qhe	3088 kWh	3722 kWh

**Model RASM-3VR2E - with Cooling kit**

Model name	RASM-3VR2E - 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	8.00 kW	8.00 kW
El input	1.73 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	1.40 kW
Cooling capacity	6.50	7.00
EER	3.35	5.00

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	51 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	178 %	127 %
Prated	6.70 kW	5.80 kW
SCOP	4.53	3.24
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.70	1.85
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.30	3.05
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.20 kW	2.43 kW
COP Tj = +7°C	6.60	4.73
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.50 kW	2.80 kW
COP Tj = 12°C	9.70	7.51
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.90 kW	5.10 kW
COP Tj = Tbiv	2.70	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
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	1.10 kW	0.80 kW
Annual energy consumption Qhe	3045 kWh	3678 kWh

### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.50 kW	7.00 kW
SEER	5.27	8.35
Pdc Tj = 35°C	6.50 kW	7.00 kW
EER Tj = 35°C	3.35	5.00
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	4.79 kW	5.16 kW
EER Tj = 30°C	4.50	6.40
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	2.90 kW	3.32 kW
EER Tj = 25°C	6.00	10.00
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	3.40 kW	3.60 kW
EER Tj = 20°C	7.50	13.50
Cdc Tj = 20 °C	0.900	0.900
Poff	12 W	12 W

PTO	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Qce	740 kWh	503 kWh

**Model RASM-3VR2E - WWA200HPPP - UK Only**

Model name	RASM-3VR2E - WWA200HPPP - UK Only
Application	Heating + DHW + low 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 16147 | Average Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	92 %
COP	2.31
Heating up time	1:19 h:min
Standby power input	56.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	231 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	8.00 kW	8.00 kW
El input	1.73 kW	2.86 kW
COP	4.60	2.80

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	51 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	175 %	125 %
Prated	6.70 kW	5.80 kW
SCOP	4.46	3.20

Tbiv	-7 °C	-7 °C
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Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.70	1.85
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Pdh Tj = +7°C	3.20 kW	2.43 kW
COP Tj = +7°C	6.60	4.73
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.50 kW	2.80 kW
COP Tj = 12°C	9.70	7.51
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Pdh Tj = Tbiv	5.90 kW	5.10 kW
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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
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	1.10 kW	0.80 kW
Annual energy consumption Qhe	3088 kWh	3722 kWh