

Subtype 18. Yutaki M 3.0HP (mono

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	18. Yutaki M 3.0HP (mono
Registration number	041-K002-18
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.4 kg

Model RASM-3VNE - Heating Only

Model name	RASM-3VNE - 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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	7.50 kW	7.50 kW
El input	1.65 kW	2.78 kW
COP	4.55	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	164 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	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	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW

COP $T_j = T_{biv}$	2.50	1.84
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.40 kW	5.20 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.30	1.65
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	55 °C	55 °C
P _{off}	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	Electricity	Electricity
Supplementary Heater: PSUP	0.60 kW	0.60 kW
Annual energy consumption Q _{he}	3298 kWh	3726 kWh

Model RASM-3VNE - with cooling kit

Model name	RASM-3VNE - with cooling kit
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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	7.50 kW	7.50 kW
El input	1.65 kW	2.78 kW
COP	4.55	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	167 %	127 %
Prated	7.00 kW	6.00 kW
SCOP	4.25	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	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW

COP Tj = Tbiv	2.50	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.40 kW	5.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.65
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °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	Electricity	Electricity
Supplementary Heater: PSUP	0.60 kW	0.60 kW
Annual energy consumption Qhe	3242 kWh	3671 kWh