

Subtype 26. Yutaki S Combi Lite 2.5HP

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	26. Yutaki S Combi Lite 2.5HP
Registration number	041-K002-26
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	1.3 kg

Model RAS-2.5WHVN RWD-2.5NWLE-200S - Heating Only

Model name	RAS-2.5WHVN RWD-2.5NWLE-200S - 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	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	125 %
COP	3.30
Heating up time	2:00 h:min
Standby power input	28.0 W
Reference hot water temperature	53.5 °C
Mixed water at 40°C	250 l

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	6.00 kW	6.00 kW
El input	1.33 kW	2.18 kW
COP	4.50	2.75

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	165 %	125 %
Prated	5.00 kW	5.00 kW
SCOP	4.21	3.20
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.55 kW	4.30 kW
COP Tj = -7°C	2.55	1.85
Pdh Tj = +2°C	2.77 kW	2.62 kW
COP Tj = +2°C	4.00	3.08
Pdh Tj = +7°C	2.50 kW	2.40 kW
COP Tj = +7°C	6.45	4.90
Pdh Tj = 12°C	2.85 kW	2.54 kW
COP Tj = 12°C	8.00	6.30
Pdh Tj = Tbiv	4.55 kW	4.30 kW
COP Tj = Tbiv	2.55	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.30 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.40	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °C	55 °C
Poff	3 W	3 W
PTO	0 W	0 W
PSB	3 W	3 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.80 kW	1.00 kW
Annual energy consumption Qhe	2524 kWh	3136 kWh

Model RAS-2.5WHVNP RWD-2.5NWLE-200S - with cooling kit

Model name	RAS-2.5WHVNP RWD-2.5NWLE-200S - with cooling kit
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	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	125 %
COP	3.30
Heating up time	2:00 h:min
Standby power input	28.0 W
Reference hot water temperature	53.5 °C
Mixed water at 40°C	250 l

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	6.00 kW	6.00 kW
El input	1.33 kW	2.18 kW
COP	4.50	2.75

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	166 %	126 %
Prated	5.00 kW	5.00 kW
SCOP	4.23	3.21
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.55 kW	4.30 kW
COP Tj = -7°C	2.55	1.85
Pdh Tj = +2°C	2.77 kW	2.62 kW
COP Tj = +2°C	4.00	3.08
Pdh Tj = +7°C	2.50 kW	2.40 kW
COP Tj = +7°C	6.45	4.90
Pdh Tj = 12°C	2.85 kW	2.54 kW
COP Tj = 12°C	8.00	6.30
Pdh Tj = Tbiv	4.55 kW	4.30 kW
COP Tj = Tbiv	2.55	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.30 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.40	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °C	55 °C
Poff	3 W	3 W
PTO	0 W	0 W
PSB	3 W	3 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.80 kW	1.00 kW
Annual energy consumption Qhe	2513 kWh	3125 kWh