

Subtype 17. Yutaki S80 6.0HP (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	17. Yutaki S80 6.0HP (tri)
Registration number	041-K002-17
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	3.4 kg
Testing basis	Heat Pump Keymark Scheme Rules
Testing laboratory	Centro de Ensayos, Innovación y Servicios (CEIS), ES

**Model RAS-6WHNPE RWH-6.0NFE - Type 1**

Model name	RAS-6WHNPE RWH-6.0NFE - Type 1
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	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

**EN 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	16.00 kW	16.00 kW
El input	3.50 kW	5.16 kW
COP	4.57	3.10

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	58 dB(A)	58 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	150 %	125 %
Prated	16.00 kW	16.00 kW
SCOP	3.83	3.20
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.80 kW	14.15 kW
COP Tj = -7°C	2.40	2.05
Pdh Tj = +2°C	8.40 kW	8.62 kW
COP Tj = +2°C	3.90	2.95
Pdh Tj = +7°C	5.40 kW	5.54 kW
COP Tj = +7°C	5.00	4.60
Pdh Tj = 12°C	3.50 kW	4.10 kW
COP Tj = 12°C	6.00	6.40

Pdh Tj = Tbiv	13.80 kW	16.00 kW
COP Tj = Tbiv	2.40	1.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.10 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °C	55 °C
Poff	44 W	44 W
PTO	0 W	0 W
PSB	44 W	44 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	0.00 kW
Annual energy consumption Qhe	8401 kWh	10335 kWh

**Model RAS-6WHNPE RWH-6.0NFWE - Type 2**

Model name	RAS-6WHNPE RWH-6.0NFWE - Type 2
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	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

**EN 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	16.00 kW	16.00 kW
El input	3.50 kW	5.16 kW
COP	4.57	3.10

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	58 dB(A)	58 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

**EN 14825 | Average Climate**

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TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.80 kW	14.15 kW
COP Tj = -7°C	2.40	2.05
Pdh Tj = +2°C	8.40 kW	8.62 kW
COP Tj = +2°C	3.90	2.95
Pdh Tj = +7°C	5.40 kW	5.54 kW
COP Tj = +7°C	5.00	4.60
Pdh Tj = 12°C	3.50 kW	4.10 kW
COP Tj = 12°C	6.00	6.40

Pdh Tj = Tbiv	13.80 kW	16.00 kW
COP Tj = Tbiv	2.40	1.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.10 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °C	55 °C
Poff	44 W	44 W
PTO	0 W	0 W
PSB	44 W	44 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	0.00 kW
Annual energy consumption Qhe	8401 kWh	10335 kWh