

Subtype 34. Yutaki S (N1) & S Combi (NW1) 220L 6HP R410A

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	34. Yutaki S (N1) & S Combi (NW1) 220L 6HP R410A
Registration number	041-K002-55
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	3.4 kg
Certification Date	08.02.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09

Model 03. RAS-6WHVNPE RWD-6.0NW1E-220S - Heating Only

Model name	03. RAS-6WHVNPE RWD-6.0NW1E-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	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	127 %
COP	3.10
Heating up time	1:05 h:min
Standby power input	34.0 W
Reference hot water temperature	52.6 °C
Mixed water at 40°C	288 l

Model 04. RAS-6WHVNPE RWD-6.0NW1E-220S - with cooling kit

Model name	04. RAS-6WHVNPE RWD-6.0NW1E-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	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	127 %
COP	3.10
Heating up time	1:05 h:min
Standby power input	34.0 W
Reference hot water temperature	52.6 °C
Mixed water at 40°C	288 l

Model 05. RAS-6WHVNPE RWD-6.0NW1E-220S-K – UK Version - Heating Only

Model name	05. RAS-6WHVNPE RWD-6.0NW1E-220S-K – UK Version - 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	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	127 %
COP	3.10
Heating up time	1:05 h:min
Standby power input	34.0 W
Reference hot water temperature	52.6 °C
Mixed water at 40°C	288 l

Model 06. RAS-6WHVNPE RWD-6.0NW1E-220S-K – UK Version - with cooling kit

Model name	06. RAS-6WHVNPE RWD-6.0NW1E-220S-K – UK Version - 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	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	127 %
COP	3.10
Heating up time	1:05 h:min
Standby power input	34.0 W
Reference hot water temperature	52.6 °C
Mixed water at 40°C	288 l

Model 01. RAS-6WHVNPE RWM-6.0N1E - Heating Only

Model name	01. RAS-6WHVNPE RWM-6.0N1E - 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	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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	162 %	134 %
Prated	16.00 kW	14.00 kW
SCOP	4.12	3.42
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.80 kW	11.20 kW
COP Tj = -7°C	2.40	1.94
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.40 kW	6.82 kW
COP Tj = +2°C	3.90	3.35
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.40 kW	4.38 kW
COP Tj = +7°C	6.16	4.80
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.50 kW	3.60 kW
COP Tj = 12°C	7.10	7.05
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.80 kW	11.20 kW
COP Tj = Tbiv	2.40	1.94

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.10 kW	10.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.40
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	3.50 kW
Annual energy consumption Qhe	7822 kWh	7640 kWh

Model 02. RAS-6WHVNPE RWM-6.0N1E - with cooling kit

Model name	02. RAS-6WHVNPE RWM-6.0N1E - 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	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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	163 %	135 %
Prated	16.00 kW	14.00 kW
SCOP	4.15	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.80 kW	11.20 kW
COP Tj = -7°C	2.40	1.94
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.40 kW	6.82 kW
COP Tj = +2°C	3.90	3.35
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.40 kW	4.38 kW
COP Tj = +7°C	6.16	4.80
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.50 kW	3.60 kW
COP Tj = 12°C	7.10	7.05
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.80 kW	11.20 kW

COP $T_j = T_{biv}$	2.40	1.94
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	14.10 kW	10.50 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.30	1.40
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.900	0.900
WTOL	55 °C	55 °C
P _{off}	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	3.50 kW
Annual energy consumption Q _{he}	7774 kWh	7592 kWh