

Subtype 35. Yutaki S (N1) & S Combi (NW1) 220L 6HP R410A (3ph)

Certificate Holder	Johnson Controls-Hitachi AirConditioning Spain
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Country	ES
Certification Body	BRE Global Limited
Subtype title	35. Yutaki S (N1) & S Combi (NW1) 220L 6HP R410A (3ph)
Registration number	041-K002-56
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
Testing laboratory	Centro de Ensayos, Innovación y Servicios (CEIS), ES

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

Model name	03. RAS-6WHNPE 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	3x400V 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

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	16.00 kW	16.00 kW
El input	3.50 kW	6.40 kW
COP	4.57	2.50

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	161 %	134 %
Prated	16.00 kW	14.00 kW

SCOP	4.11	3.41
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	19 W	19 W
PTO	0 W	0 W
PSB	19 W	19 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	7844 kWh	7662 kWh

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

Model name	04. RAS-6WHNPE 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	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency ηDHW	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

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	16.00 kW	16.00 kW
El input	3.50 kW	6.40 kW
COP	4.57	2.50

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.25 kW	3.19 kW
Cooling capacity	10.50	13.50
EER	3.23	4.23

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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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 %
P _{rated}	16.00 kW	14.00 kW
SCOP	4.15	3.45
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh Tj = -7°C}	13.80 kW	11.20 kW
COP T _{j = -7°C}	2.40	1.94
C _{dh Tj = -7 °C}	0.900	0.900
P _{dh Tj = +2°C}	8.40 kW	6.82 kW
COP T _{j = +2°C}	3.90	3.35
C _{dh Tj = +2 °C}	0.900	0.900
P _{dh Tj = +7°C}	5.40 kW	4.38 kW
COP T _{j = +7°C}	6.16	4.80
C _{dh Tj = +7 °C}	0.900	0.900
P _{dh Tj = 12°C}	3.50 kW	3.60 kW
COP T _{j = 12°C}	7.10	7.05
C _{dh Tj = +12 °C}	0.900	0.900
P _{dh Tj = T_{biv}}	13.80 kW	11.20 kW
COP T _{j = T_{biv}}	2.40	1.94
P _{dh Tj = TOL or P_{dh Tj = 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 Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	0.900	0.900
WTOL	55 °C	55 °C
P _{off}	19 W	19 W
PTO	0 W	0 W
PSB	19 W	19 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

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	10.50 kW	13.50 kW
SEER	5.14	7.70
P _{dc Tj = 35°C}	10.50 kW	13.50 kW
EER T _{j = 35°C}	3.23	4.23
P _{dc Tj = 30°C}	7.80 kW	9.95 kW

EER T _j = 30°C	4.56	6.86
Cdc T _j = 30 °C	0.900	0.900
Pdc T _j = 25°C	5.00 kW	7.20 kW
EER T _j = 25°C	5.77	9.54
Cdc T _j = 25 °C	0.900	0.900
Pdc T _j = 20°C	3.20 kW	7.80 kW
EER T _j = 20°C	7.69	12.47
Cdc T _j = 20 °C	0.900	0.900
Poff	19 W	19 W
PTO	0 W	0 W
PSB	19 W	19 W
PCK	0 W	0 W
Annual energy consumption Qce	715 kWh	613 kWh

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

Model name	05. RAS-6WHNPE 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	3x400V 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

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	16.00 kW	16.00 kW
El input	3.50 kW	6.40 kW
COP	4.57	2.50

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	161 %	134 %
Prated	16.00 kW	14.00 kW

SCOP	4.11	3.41
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	19 W	19 W
PTO	0 W	0 W
PSB	19 W	19 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	7844 kWh	7662 kWh

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

Model name	06. RAS-6WHNPE 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	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water
EN 16147 | Average Climate

Declared load profile	L
Efficiency ηDHW	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

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	16.00 kW	16.00 kW
El input	3.50 kW	6.40 kW
COP	4.57	2.50

EN 14511-2 | Cooling

	Low temperature	Medium temperature
El input	3.25 kW	3.19 kW
Cooling capacity	10.50	13.50
EER	3.23	4.23

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 %
P _{rated}	16.00 kW	14.00 kW
SCOP	4.15	3.45
T _{biv}	-7 °C	-7 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j} = -7°C	13.80 kW	11.20 kW
COP T _j = -7°C	2.40	1.94
C _{dh T_j} = -7 °C	0.900	0.900
P _{dh T_j} = +2°C	8.40 kW	6.82 kW
COP T _j = +2°C	3.90	3.35
C _{dh T_j} = +2 °C	0.900	0.900
P _{dh T_j} = +7°C	5.40 kW	4.38 kW
COP T _j = +7°C	6.16	4.80
C _{dh T_j} = +7 °C	0.900	0.900
P _{dh T_j} = 12°C	3.50 kW	3.60 kW
COP T _j = 12°C	7.10	7.05
C _{dh T_j} = +12 °C	0.900	0.900
P _{dh T_j} = T _{biv}	13.80 kW	11.20 kW
COP T _j = T _{biv}	2.40	1.94
P _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	14.10 kW	10.50 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.30	1.40
C _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	0.900	0.900
WTOL	55 °C	55 °C
P _{off}	19 W	19 W
PTO	0 W	0 W
PSB	19 W	19 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

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	10.50 kW	13.50 kW
SEER	5.14	7.70
P _{dc T_j} = 35°C	10.50 kW	13.50 kW
EER T _j = 35°C	3.23	4.23
P _{dc T_j} = 30°C	7.80 kW	9.95 kW

EER Tj = 30°C	4.56	6.86
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.00 kW	7.20 kW
EER Tj = 25°C	5.77	9.54
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	3.20 kW	7.80 kW
EER Tj = 20°C	7.69	12.47
Cdc Tj = 20 °C	0.900	0.900
Poff	19 W	19 W
PTO	0 W	0 W
PSB	19 W	19 W
PCK	0 W	0 W
Annual energy consumption Qce	715 kWh	613 kWh

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

Model name	01. RAS-6WHNPE 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	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
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	16.00 kW	16.00 kW
EI input	3.50 kW	6.40 kW
COP	4.57	2.50

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	161 %	134 %
Prated	16.00 kW	14.00 kW
SCOP	4.11	3.41
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	19 W	19 W
PTO	0 W	0 W
PSB	19 W	19 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	7844 kWh	7662 kWh

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

Model name	02. RAS-6WHNPE 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	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
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	16.00 kW	16.00 kW
El input	3.50 kW	6.40 kW
COP	4.57	2.50

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.25 kW	3.19 kW
Cooling capacity	10.50	13.50
EER	3.23	4.23

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
ηs	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 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	19 W	19 W
PTO	0 W	0 W
PSB	19 W	19 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	7774 kWh	7592 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	10.50 kW	13.50 kW
SEER	5.14	7.70
Pdc Tj = 35°C	10.50 kW	13.50 kW
EER Tj = 35°C	3.23	4.23
Pdc Tj = 30°C	7.80 kW	9.95 kW
EER Tj = 30°C	4.56	6.86
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.00 kW	7.20 kW
EER Tj = 25°C	5.77	9.54
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	3.20 kW	7.80 kW
EER Tj = 20°C	7.69	12.47
Cdc Tj = 20 °C	0.900	0.900
Poff	19 W	19 W

PTO	0 W	0 W
PSB	19 W	19 W
PCK	0 W	0 W
Annual energy consumption Qce	715 kWh	613 kWh