Login

Summary of	31. Yutaki S (N1) & S Combi (NW1) 220L 4HP R410A (3ph)	Reg. No.	041-K002-52
Certificate Holder			
Name	Johnson Controls-Hitachi AirConditioning Spain		
Address	Ronda Shimizu, 1. Pol. Ind. Can Torrella	Zip	08233
City	Vacarisses, Barcelona	Country	Spain
Certification Body	BRE Global Limited		
Subtype title	31. Yutaki S (N1) & S Combi (NW1) 220L 4HP R410A (3ph)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	3.3 kg		
Certification Date	08.02.2022		
Testing basis	Heat Pump Keymark Scheme Rules Rev 09		

Model: 03. RAS-4WHNPE RWD-4.0NW1E-220S - Heating Only

Configure model	
Model name	03. RAS-4WHNPE RWD-4.0NW1E-220S - Heating Only
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
COP	5.00	3.00

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	180 %	135 %
Prated	11.00 kW	10.00 kW
SCOP	4.58	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.45 kW	8.60 kW
COP Tj = -7°C	3.05	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.75 kW	5.23 kW
COP Tj = +2°C	4.50	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.70 kW	3.52 kW
COP Tj = +7°C	6.00	4.80
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	7.50	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.45 kW	8.60 kW
COP Tj = Tbiv	3.05	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
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	0.50 kW	2.60 kW
Annual energy consumption Qhe	4823 kWh	5837 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

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

Model: 04. RAS-4WHNPE RWD-4.0NW1E-220S - with cooling kit

Configure model	
Model name	04. RAS-4WHNPE RWD-4.0NW1E-220S - with cooling kit
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

General Data	
Power supply	n/a

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
COP	5.00	3.00

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	1.87 kW	2.31 kW
Cooling capacity	7.20	10.40
EER	3.84	4.50

EN 14825

	+7°C/+12°C	**+18°C/+23°C**
Pdesignc	7.20 kW	10.40 kW
SEER	5.00	6.22
Pdc Tj = 35°C	7.20 kW	10.40 kW
EER Tj = 35°C	3.84	4.50
Pdc Tj = 30°C	5.30 kW	7.66 kW
EER Tj = 30°C	4.60	6.30
Cdc	0.900	0.900
Pdc Tj = 25°C	3.50 kW	4.93 kW
EER Tj = 25°C	5.80	7.20
Cdc	0.900	0.900
Pdc Tj = 20°C	3.60 kW	5.10 kW
EER Tj = 20°C	7.50	8.20
Cdc	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	504 kWh	585 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	183 %	136 %
Prated	11.00 kW	10.00 kW
SCOP	4.64	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.45 kW	8.60 kW
COP Tj = -7°C	3.05	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.75 kW	5.23 kW
COP Tj = +2°C	4.50	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.70 kW	3.52 kW
COP Tj = +7°C	6.00	4.80
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	7.50	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.45 kW	8.60 kW
COP Tj = Tbiv	3.05	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
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	0.50 kW	2.60 kW
Annual energy consumption Qhe	4753 kWh	5767 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

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

Model: 05. RAS-4WHNPE RWD-4.0NW1E-220S-K – UK Version - Heating Only

Configure model	
Model name	05. RAS-4WHNPE RWD-4.0NW1E-220S-K – UK Version - Heating Only
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
COP	5.00	3.00

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	180 %	135 %
Prated	11.00 kW	10.00 kW
SCOP	4.58	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.45 kW	8.60 kW
COP Tj = -7°C	3.05	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.75 kW	5.23 kW
COP Tj = +2°C	4.50	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.70 kW	3.52 kW
COP Tj = +7°C	6.00	4.80
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	7.50	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.45 kW	8.60 kW
COP Tj = Tbiv	3.05	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
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	0.50 kW	2.60 kW
Annual energy consumption Qhe	4823 kWh	5837 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

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

Model: 06. RAS-4WHNPE RWD-4.0NW1E-220S-K – UK Version - with cooling kit

Configure model	
Model name	06. RAS-4WHNPE RWD-4.0NW1E-220S-K – UK Version - with cooling kit
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
COP	5.00	3.00

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	1.87 kW	2.31 kW
Cooling capacity	7.20	10.40
EER	3.84	4.50

EN 14825

	+7°C/+12°C	**+18°C/+23°C**
Pdesignc	7.20 kW	10.40 kW
SEER	5.00	6.22
Pdc Tj = 35°C	7.20 kW	10.40 kW
EER Tj = 35°C	3.84	4.50
Pdc Tj = 30°C	5.30 kW	7.66 kW
EER Tj = 30°C	4.60	6.30
Cdc	0.900	0.900
Pdc Tj = 25°C	3.50 kW	4.93 kW
EER Tj = 25°C	5.80	7.20
Cdc	0.900	0.900
Pdc Tj = 20°C	3.60 kW	5.10 kW
EER Tj = 20°C	7.50	8.20
Cdc	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	504 kWh	585 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	183 %	136 %
Prated	11.00 kW	10.00 kW
SCOP	4.64	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.45 kW	8.60 kW
COP Tj = -7°C	3.05	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.75 kW	5.23 kW
COP Tj = +2°C	4.50	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.70 kW	3.52 kW
COP Tj = +7°C	6.00	4.80
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	7.50	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.45 kW	8.60 kW
COP Tj = Tbiv	3.05	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
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	0.50 kW	2.60 kW
Annual energy consumption Qhe	4753 kWh	5767 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

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

Model: 01. RAS-4WHNPE RWM-4.0N1E - Heating Only

Configure model	
Model name	01. RAS-4WHNPE RWM-4.0N1E - Heating Only
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
COP	5.00	3.00

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	180 %	135 %
Prated	11.00 kW	10.00 kW
SCOP	4.58	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.45 kW	8.60 kW
COP Tj = -7°C	3.05	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.75 kW	5.23 kW
COP Tj = +2°C	4.50	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.70 kW	3.52 kW
COP Tj = +7°C	6.00	4.80
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	7.50	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.45 kW	8.60 kW
COP Tj = Tbiv	3.05	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
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	0.50 kW	2.60 kW
Annual energy consumption Qhe	4823 kWh	5837 kWh

Model: 02. RAS-4WHNPE RWM-4.0N1E - with cooling kit

Configure model	
Model name	02. RAS-4WHNPE RWM-4.0N1E - with cooling kit
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
COP	5.00	3.00

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	1.87 kW	2.31 kW
Cooling capacity	7.20	10.40
EER	3.84	4.50

EN 14825

	+7°C/+12°C	**+18°C/+23°C**
Pdesignc	7.20 kW	10.40 kW
SEER	5.00	6.22
Pdc Tj = 35°C	7.20 kW	10.40 kW
EER Tj = 35°C	3.84	4.50
Pdc Tj = 30°C	5.30 kW	7.66 kW
EER Tj = 30°C	4.60	6.30
Cdc	0.900	0.900
Pdc Tj = 25°C	3.50 kW	4.93 kW
EER Tj = 25°C	5.80	7.20
Cdc	0.900	0.900
Pdc Tj = 20°C	3.60 kW	5.10 kW
EER Tj = 20°C	7.50	8.20
Cdc	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	504 kWh	585 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	183 %	136 %
Prated	11.00 kW	10.00 kW
SCOP	4.64	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.45 kW	8.60 kW
COP Tj = -7°C	3.05	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.75 kW	5.23 kW
COP Tj = +2°C	4.50	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.70 kW	3.52 kW
COP Tj = +7°C	6.00	4.80
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	7.50	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.45 kW	8.60 kW
COP Tj = Tbiv	3.05	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
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	0.50 kW	2.60 kW
Annual energy consumption Qhe	4753 kWh	5767 kWh