Login

Summary of	32. Yutaki S (N1) & S Combi (NW1) 220L 5HP R410A	Reg. No.	041-K002-53
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	32. Yutaki S (N1) & S Combi (NW1) 220L 5HP R410A		
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-5WHVNPE RWD-5.0NW1E-220S - Heating Only

Configure model	
Model name	03. RAS-5WHVNPE RWD-5.0NW1E-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	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
COP	4.71	2.80

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	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	183 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.65	3.39
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.70 kW	4.01 kW
COP Tj = +7°C	6.54	4.60
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	7.55	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
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	3.00 kW
Annual energy consumption Qhe	6022 kWh	7066 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-5WHVNPE RWD-5.0NW1E-220S - with cooling kit

Configure model	
Model name	04. RAS-5WHVNPE RWD-5.0NW1E-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	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
COP	4.71	2.80

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	2.79 kW	2.88 kW
Cooling capacity	9.50	12.90
EER	3.40	4.48

EN 14825

	+7°C/+12°C	**+18°C/+23°C**
Pdesignc	9.50 kW	12.90 kW
SEER	5.34	8.14
Pdc Tj = 35°C	9.50 kW	12.90 kW
EER Tj = 35°C	3.40	4.48
Pdc Tj = 30°C	7.00 kW	9.51 kW
EER Tj = 30°C	4.75	7.11
Cdc	0.900	0.900
Pdc Tj = 25°C	4.50 kW	7.20 kW
EER Tj = 25°C	5.88	9.98
Cdc	0.900	0.900
Pdc Tj = 20°C	3.20 kW	7.80 kW
EER Tj = 20°C	7.84	12.97
Cdc	0.900	0.900
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Annual energy consumption Qce	623 kWh	554 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	185 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.69	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.70 kW	4.01 kW
COP Tj = +7°C	6.54	4.60
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	7.55	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
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	3.00 kW
Annual energy consumption Qhe	5974 kWh	7018 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-5WHVNPE RWD-5.0NW1E-220S-K – UK Version - Heating Only

Configure model	
Model name	05. RAS-5WHVNPE RWD-5.0NW1E-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	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
COP	4.71	2.80

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	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	183 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.65	3.39
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.70 kW	4.01 kW
COP Tj = +7°C	6.54	4.60
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	7.55	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
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	3.00 kW
Annual energy consumption Qhe	6022 kWh	7066 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-5WHVNPE RWD-5.0NW1E-220S-K – UK Version - with cooling kit

Configure model	
Model name	06. RAS-5WHVNPE RWD-5.0NW1E-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	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
COP	4.71	2.80

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	2.79 kW	2.88 kW
Cooling capacity	9.50	12.90
EER	3.40	4.48

EN 14825

	+7°C/+12°C	**+18°C/+23°C**
Pdesignc	9.50 kW	12.90 kW
SEER	5.34	8.14
Pdc Tj = 35°C	9.50 kW	12.90 kW
EER Tj = 35°C	3.40	4.48
Pdc Tj = 30°C	7.00 kW	9.51 kW
EER Tj = 30°C	4.75	7.11
Cdc	0.900	0.900
Pdc Tj = 25°C	4.50 kW	7.20 kW
EER Tj = 25°C	5.88	9.98
Cdc	0.900	0.900
Pdc Tj = 20°C	3.20 kW	7.80 kW
EER Tj = 20°C	7.84	12.97
Cdc	0.900	0.900
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Annual energy consumption Qce	623 kWh	554 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	185 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.69	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.70 kW	4.01 kW
COP Tj = +7°C	6.54	4.60
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	7.55	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
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	3.00 kW
Annual energy consumption Qhe	5974 kWh	7018 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-5WHVNPE RWM-5.0N1E - Heating Only

Configure model	
Model name	01. RAS-5WHVNPE RWM-5.0N1E - 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	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
COP	4.71	2.80

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	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	183 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.65	3.39
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.70 kW	4.01 kW
COP Tj = +7°C	6.54	4.60
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	7.55	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
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	3.00 kW
Annual energy consumption Qhe	6022 kWh	7066 kWh

Model: 02. RAS-5WHVNPE RWM-5.0N1E - with cooling kit

Configure model	
Model name	02. RAS-5WHVNPE RWM-5.0N1E - 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	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
COP	4.71	2.80

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	2.79 kW	2.88 kW
Cooling capacity	9.50	12.90
EER	3.40	4.48

EN 14825

	+7°C/+12°C	**+18°C/+23°C**
Pdesignc	9.50 kW	12.90 kW
SEER	5.34	8.14
Pdc Tj = 35°C	9.50 kW	12.90 kW
EER Tj = 35°C	3.40	4.48
Pdc Tj = 30°C	7.00 kW	9.51 kW
EER Tj = 30°C	4.75	7.11
Cdc	0.900	0.900
Pdc Tj = 25°C	4.50 kW	7.20 kW
EER Tj = 25°C	5.88	9.98
Cdc	0.900	0.900
Pdc Tj = 20°C	3.20 kW	7.80 kW
EER Tj = 20°C	7.84	12.97
Cdc	0.900	0.900
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Annual energy consumption Qce	623 kWh	554 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	185 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.69	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.70 kW	4.01 kW
COP Tj = +7°C	6.54	4.60
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	7.55	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
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	3.00 kW
Annual energy consumption Qhe	5974 kWh	7018 kWh