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Login

Summary of	32. Yutaki S (N1) & S Combi (NW1) 220L 5HP R410A	Reg. No.	041-K002-53	
Certificate Holder	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	erant 3.4 kg			
Certification Date	08.02.2022			
Testing basis	esting 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	
СОР	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
РТО	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)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	127 %	
СОР	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 I	



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	
СОР	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





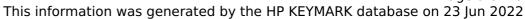
EN 14511-2			
+7°C/+12°C +18°C/+23°C			
El input	2.79 kW	2.88 kW	
Cooling capacity	9.50	12.90	
EER	3.40	4.48	

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
РТО	o w	o w
PSB	13 W	13 W
PCK	o w	o w
Annual energy consumption Qce	623 kWh	554 kWh





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
РТО	0 W	0 W
PSB	13 W	13 W
PCK	o 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)





EN 16147	
Declared load profile	L
Efficiency ηDHW	127 %
СОР	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



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

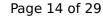
EN 14511-2			
Low temperature Medium temperature			
Heat output	14.00 kW	14.00 kW	
El input	2.97 kW	5.00 kW	
СОР	4.71	2.80	

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



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





-	
3.50 kW	3.50 kW
7.55	5.50
0.900	0.900
12.00 kW	10.25 kW
2.55	1.70
12.10 kW	9.00 kW
2.50	1.60
0.900	0.900
55 °C	55 °C
13 W	13 W
0 W	0 W
13 W	13 W
0 W	0 W
Electricity	Electricity
1.90 kW	3.00 kW
6022 kWh	7066 kWh
	7.55 0.900 12.00 kW 2.55 12.10 kW 2.50 0.900 55 °C 13 W 0 W 13 W 0 W Electricity 1.90 kW

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	127 %	
СОР	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 I	



Model: 06. RAS-5WHVNPE RWD-5.0NW1E-220S-K - UK Version - with cooling kit

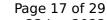
Configure model		
Model name	06. RAS-5WHVNPE RWD-5.0NW1E-220S-K - UK Version - with cooling kit	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C	

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
СОР	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

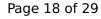




Cooling

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
РТО	o w	o w
PSB	13 W	13 W
PCK	o w	o w
Annual energy consumption Qce	623 kWh	554 kWh



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





3.50 kW	3.50 kW
7.55	5.50
0.900	0.900
12.00 kW	10.25 kW
2.55	1.70
12.10 kW	9.00 kW
2.50	1.60
0.900	0.900
55 °C	55 °C
13 W	13 W
0 W	0 W
13 W	13 W
0 W	0 W
Electricity	Electricity
1.90 kW	3.00 kW
5974 kWh	7018 kWh
	7.55 0.900 12.00 kW 2.55 12.10 kW 2.50 0.900 55 °C 13 W 0 W 13 W 0 W Electricity 1.90 kW

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	127 %	
СОР	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 I	



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
СОР	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

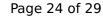
Average Climate





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
РТО	0 W	0 W
PSB	13 W	13 W
PCK	o 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	

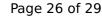
Heating

CEN heat pump

EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
СОР	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



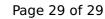


	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.50 kW	12.90 kW
SEER	5.34	8.14
Pdc Tj = 35°C	9.50 kW	12.90 kW
EER Tj = 35°C	3.40	4.48
Pdc Tj = 30°C	7.00 kW	9.51 kW
EER Tj = 30°C	4.75	7.11
Cdc	0.900	0.900
Pdc Tj = 25°C	4.50 kW	7.20 kW
EER Tj = 25°C	5.88	9.98
Cdc	0.900	0.900
Pdc Tj = 20°C	3.20 kW	7.80 kW
EER Tj = 20°C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



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
РТО	o w	o w
PSB	13 W	13 W
PCK	o w	o 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