

Heat Pump Type

Mass of Refrigerant

Certification Date

Refrigerant

Testing basis

Outdoor Air/Water

Heat Pump Keymark Scheme Rules Rev 09

R410A

3.4 kg

08.02.2022

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<u>Login</u> Summary of 33. Yutaki S (N1) & S Combi (NW1) 220L 5HP R410A (3ph) Reg. No. 041-K002-54 Certificate Holder Name Johnson Controls-Hitachi AirConditioning Spain 08233 Address Ronda Shimizu, 1. Pol. Ind. Can Torrella Zip Vacarisses, Barcelona Country Spain City **Certification Body BRE Global Limited** Subtype title 33. Yutaki S (N1) & S Combi (NW1) 220L 5HP R410A (3ph)

Model: 03. RAS-5WHNPE RWD-5.0NW1E-220S - Heating Only

Configure model			
Model name	03. RAS-5WHNPE 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	3x400V 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}	182 %	132 %
Prated	14.00 kW	12.00 kW
SCOP	4.64	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
19 W	19 W
0 W	o w
19 W	19 W
0 W	0 W
Electricity	Electricity
1.90 kW	3.00 kW
6044 kWh	7088 kWh
	7.55 0.900 12.00 kW 2.55 12.10 kW 2.50 0.900 55 °C 19 W 0 W 19 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: 04. RAS-5WHNPE RWD-5.0NW1E-220S - with cooling kit

Configure model		
Model name	04. RAS-5WHNPE 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	2 400//50//		

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}	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 = $+2^{\circ}$ 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 = $+7^{\circ}$ C	4.70 kW	4.01 kW
$COP Tj = +7^{\circ}C$	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
19 W	19 W
0 W	o w
19 W	19 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 19 W 0 W 19 W 0 W Electricity 1.90 kW

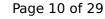
Cooling





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	5.23	7.96
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	19 W	19 W
РТО	o w	o w
PSB	19 W	19 W
PCK	o w	o w
Annual energy consumption Qce	636 kWh	567 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: 05. RAS-5WHNPE RWD-5.0NW1E-220S-K - UK Version - Heating Only

Configure model		
Model name	05. RAS-5WHNPE 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	3x400V 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

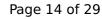
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

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)

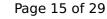
EN 14825		
	Low temperature	Medium temperature
η_{s}	182 %	132 %
Prated	14.00 kW	12.00 kW
SCOP	4.64	3.39
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Cdh Tj = +2 °C	0.900	0.900
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	19 W	19 W
РТО	0 W	0 W
PSB	19 W	19 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	6044 kWh	7088 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: 06. RAS-5WHNPE RWD-5.0NW1E-220S-K - UK Version - with cooling kit

Configure model		
Model name	06. RAS-5WHNPE 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 3x400V 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

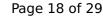
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	





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)

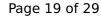
EN 14825		
	Low temperature	Medium temperature
η_{s}	185 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.69	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.70 kW	4.01 kW
$COP Tj = +7^{\circ}C$	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	19 W	19 W
РТО	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	3.00 kW
Annual energy consumption Qhe	5974 kWh	7018 kWh

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

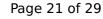
EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.50 kW	12.90 kW
SEER	5.23	7.96
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	19 W	19 W
РТО	0 W	0 W
PSB	19 W	19 W
PCK	0 W	0 W
Annual energy consumption Qce	636 kWh	567 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: 01. RAS-5WHNPE RWM-5.0N1E - Heating Only

Configure model		
Model name 01. RAS-5WHNPE 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	3x400V 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}	182 %	132 %
Prated	14.00 kW	12.00 kW
SCOP	4.64	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	19 W	19 W
РТО	0 W	0 W
PSB	19 W	19 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	6044 kWh	7088 kWh



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

Configure model		
Model name 02. RAS-5WHNPE 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 3x400V 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

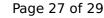
Average Climate





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}	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	





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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	19 W	19 W
РТО	0 W	0 W
PSB	19 W	19 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

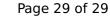
Cooling





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	5.23	7.96
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	19 W	19 W
РТО	0 W	o w
PSB	19 W	19 W
PCK	0 W	o w
Annual energy consumption Qce	636 kWh	567 kWh