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Summary of	27. Yutaki S (R1) & S Combi (RW1) 220L 2HP R32	Reg. No.	041-K002-48
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	27. Yutaki S (R1) & S Combi (RW1) 220L 2HP R32		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.2 kg		
Certification Date	Date 08.02.2022		
Testing basis Heat Pump Keymark Scheme Rules Rev 09			



Model: 03. RAS-2WHVRP1 RWD-2.0RW1E-220S - Heating Only

Configure model		
Model name	03. RAS-2WHVRP1 RWD-2.0RW1E-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	4.30 kW	4.30 kW
El input	0.82 kW	1.43 kW
СОР	5.25	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	37 dB(A)	37 dB(A)
Sound power level outdoor	49 dB(A)	49 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	130 %
Prated	4.00 kW	4.00 kW
SCOP	4.57	3.32
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.50 kW
COP Tj = -7°C	3.20	2.00
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.35 kW	2.16 kW
COP Tj = +2°C	4.43	3.25
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	7.41	5.20
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	9.24	6.90
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.54 kW	3.50 kW
COP Tj = Tbiv	3.20	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.75	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
РТО	0 W	0 W
PSB	12 W	12 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	1811 kWh	2463 kWh

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	130 %	
СОР	3.20	
Heating up time	1:55 h:min	
Standby power input	30.0 W	
Reference hot water temperature	52.6 °C	
Mixed water at 40°C	288 I	



Model: 04. RAS-2WHVRP1 RWD-2.0RW1E-220S - with cooling kit

Configure model		
Model name	04. RAS-2WHVRP1 RWD-2.0RW1E-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	4.30 kW	4.30 kW	
El input	0.82 kW	1.43 kW	
СОР	5.25	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	37 dB(A)	37 dB(A)
Sound power level outdoor	49 dB(A)	49 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	184 %	132 %	
Prated	4.00 kW	4.00 kW	
SCOP	4.68	3.38	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	3.54 kW	3.50 kW	
COP Tj = -7°C	3.20	2.00	
Cdh Tj = -7 °C	1.000	1.000	
Pdh Tj = +2°C	2.35 kW	2.16 kW	
COP Tj = +2°C	4.43	3.25	
Cdh Tj = +2 °C	1.000	1.000	
Pdh Tj = +7°C	3.00 kW	2.43 kW	
COP Tj = +7°C	7.41	5.20	
Cdh Tj = +7 °C	0.900	0.900	





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3.05 kW	2.80 kW
9.24	6.90
0.900	0.900
3.54 kW	3.50 kW
3.20	2.00
4.00 kW	3.10 kW
2.75	1.90
1.000	1.000
55 °C	55 °C
12 W	12 W
0 W	0 W
12 W	12 W
0 W	0 W
Electricity	Electricity
0.00 kW	0.90 kW
1767 kWh	2420 kWh
	9.24 0.900 3.54 kW 3.20 4.00 kW 2.75 1.000 55 °C 12 W 0 W 12 W 0 W Electricity 0.00 kW

Cooling

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.00 kW	5.50 kW
SEER	5.57	8.04
Pdc Tj = 35°C	4.00 kW	5.50 kW
EER Tj = 35°C	4.00	5.40
Pdc Tj = 30°C	2.95 kW	4.05 kW
EER Tj = 30°C	5.00	7.20
Cdc		
Pdc Tj = 25°C	2.05 kW	2.61 kW
EER Tj = 25°C	6.45	9.60
Cdc		
Pdc Tj = 20°C	2.88 kW	2.51 kW
EER Tj = 20°C	8.00	10.30
Cdc		
Poff	12 W	12 W
РТО	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Qce	431 kWh	410 kWh



EN 14511-2			
	+7°C/+12°C	+18°C/+23°C	
El input	1.00 kW	1.02 kW	
Cooling capacity	4.00	5.50	
EER	4.00	5.40	

Domestic Hot Water (DHW)

EN 16147		
Declared load profile	L	
Efficiency ηDHW	130 %	
СОР	3.20	
Heating up time	1:55 h:min	
Standby power input	30.0 W	
Reference hot water temperature	52.6 °C	
Mixed water at 40°C	288 I	



Model: 05. RAS-2WHVRP1 RWD-2.0RW1E-220S-K - UK Version - Heating Only

Configure model		
Model name	05. RAS-2WHVRP1 RWD-2.0RW1E-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

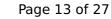
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.30 kW	4.30 kW	
El input	0.82 kW	1.43 kW	
СОР	5.25	3.00	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	49 dB(A)	49 dB(A)

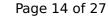
EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	130 %
Prated	4.00 kW	4.00 kW
SCOP	4.57	3.32
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.50 kW
COP Tj = -7°C	3.20	2.00
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = $+2$ °C	2.35 kW	2.16 kW
COP Tj = +2°C	4.43	3.25
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	7.41	5.20
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	9.24	6.90
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.54 kW	3.50 kW
COP Tj = Tbiv	3.20	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.75	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
РТО	0 W	0 W
PSB	12 W	12 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	1811 kWh	2463 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	130 %	
СОР	3.20	
Heating up time	1:55 h:min	
Standby power input	30.0 W	
Reference hot water temperature	52.6 °C	
Mixed water at 40°C	288	



Model: 06. RAS-2WHVRP1 RWD-2.0RW1E-220S-K - UK Version - with cooling kit

Configure model		
Model name	06. RAS-2WHVRP1 RWD-2.0RW1E-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	4.30 kW	4.30 kW	
El input	0.82 kW	1.43 kW	
СОР	5.25	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	

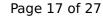


Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	37 dB(A)	37 dB(A)	
Sound power level outdoor	49 dB(A)	49 dB(A)	

EN 14825		
Low temperature	Medium temperature	
184 %	132 %	
4.00 kW	4.00 kW	
4.68	3.38	
-7 °C	-7 °C	
-10 °C	-10 °C	
3.54 kW	3.50 kW	
3.20	2.00	
1.000	1.000	
2.35 kW	2.16 kW	
4.43	3.25	
1.000	1.000	
3.00 kW	2.43 kW	
7.41	5.20	
	Low temperature 184 % 4.00 kW 4.68 -7 °C -10 °C 3.54 kW 3.20 1.000 2.35 kW 4.43 1.000 3.00 kW	





This information was genera	ted by the in Reinna	
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	9.24	6.90
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.54 kW	3.50 kW
COP Tj = Tbiv	3.20	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.75	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	12 W	12 W
РТО	0 W	0 W
PSB	12 W	12 W
РСК	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	1767 kWh	2420 kWh

Cooling

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.00 kW	5.50 kW
SEER	5.57	8.04
Pdc Tj = 35°C	4.00 kW	5.50 kW
EER Tj = 35°C	4.00	5.40
Pdc Tj = 30°C	2.95 kW	4.05 kW
EER Tj = 30°C	5.00	7.20
Cdc		
Pdc Tj = 25°C	2.05 kW	2.61 kW
EER Tj = 25°C	6.45	9.60
Cdc		
Pdc Tj = 20°C	2.88 kW	2.51 kW
EER Tj = 20°C	8.00	10.30
Cdc		
Poff	12 W	12 W
РТО	o w	o w
PSB	12 W	12 W
PCK	o w	o w
Annual energy consumption Qce	431 kWh	410 kWh



EN 14511-2			
+7°C/+12°C +18°C/+23°C			
El input	1.00 kW	1.02 kW	
Cooling capacity	4.00	5.50	
EER	4.00	5.40	

Domestic Hot Water (DHW)

EN 16147		
Declared load profile	L	
Efficiency ηDHW	130 %	
COP	3.20	
Heating up time	1:55 h:min	
Standby power input	30.0 W	
Reference hot water temperature	52.6 °C	
Mixed water at 40°C	288 I	



Model: 01. RAS-2WHVRP1 RWM-2.0R1E - Heating Only

Configure model		
Model name 01. RAS-2WHVRP1 RWM-2.0R1E - 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	4.30 kW	4.30 kW	
El input	0.82 kW	1.43 kW	
СОР	5.25	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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	49 dB(A)	49 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	130 %
Prated	4.00 kW	4.00 kW
SCOP	4.57	3.32
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.50 kW
COP Tj = -7°C	3.20	2.00
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = $+2$ °C	2.35 kW	2.16 kW
COP Tj = +2°C	4.43	3.25
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	7.41	5.20
Cdh Tj = +7 °C	0.900	0.900



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Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	9.24	6.90
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.54 kW	3.50 kW
COP Tj = Tbiv	3.20	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.75	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
РТО	0 W	0 W
PSB	12 W	12 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	1811 kWh	2463 kWh



Model: 02. RAS-2WHVRP1 RWM-2.0R1E - with cooling kit

Configure model		
Model name 02. RAS-2WHVRP1 RWM-2.0R1E - 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	4.30 kW	4.30 kW	
El input	0.82 kW	1.43 kW	
СОР	5.25	3.00	

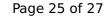
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

Average Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	37 dB(A)	37 dB(A)	
Sound power level outdoor	49 dB(A)	49 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
η_{s}	184 %	132 %	
Prated	4.00 kW	4.00 kW	
SCOP	4.68	3.38	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	3.54 kW	3.50 kW	
COP Tj = -7°C	3.20	2.00	
Cdh Tj = -7 °C	1.000	1.000	
Pdh Tj = +2°C	2.35 kW	2.16 kW	
COP Tj = +2°C	4.43	3.25	
Cdh Tj = +2 °C	1.000	1.000	
Pdh Tj = +7°C	3.00 kW	2.43 kW	
COP Tj = +7°C	7.41	5.20	
Cdh Tj = +7 °C	0.900	0.900	

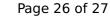




3.05 kW	2.80 kW
9.24	6.90
0.900	0.900
3.54 kW	3.50 kW
3.20	2.00
4.00 kW	3.10 kW
2.75	1.90
1.000	1.000
55 °C	55 °C
12 W	12 W
0 W	0 W
12 W	12 W
0 W	0 W
Electricity	Electricity
0.00 kW	0.90 kW
1767 kWh	2420 kWh
	9.24 0.900 3.54 kW 3.20 4.00 kW 2.75 1.000 55 °C 12 W 0 W 12 W 0 W Electricity 0.00 kW

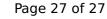
Cooling

EN 14825





This information was gener	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.00 kW	5.50 kW
SEER	5.57	8.04
Pdc Tj = 35°C	4.00 kW	5.50 kW
EER Tj = 35°C	4.00	5.40
Pdc Tj = 30°C	2.95 kW	4.05 kW
EER Tj = 30°C	5.00	7.20
Cdc		
Pdc Tj = 25°C	2.05 kW	2.61 kW
EER Tj = 25°C	6.45	9.60
Cdc		
Pdc Tj = 20°C	2.88 kW	2.51 kW
EER Tj = 20°C	8.00	10.30
Cdc		
Poff	12 W	12 W
РТО	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Qce	431 kWh	410 kWh





EN 14511-2			
	+7°C/+12°C	+18°C/+23°C	
El input	1.00 kW	1.02 kW	
Cooling capacity	4.00	5.50	
EER	4.00	5.40	