

Page 1 of 35

This information was generated by the HP KEYMARK database on 23 Jun 2022

Login

Summary of	28. Yutaki S (R1) & S Combi (RW1) 220L 2.5HP R32	Reg. No.	041-K002-49
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	28. Yutaki S (R1) & S Combi (RW1) 220L 2.5HP R32		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.3 kg		
Certification Date	08.02.2022		
Testing basis	Heat Pump Keymark Scheme Rules Rev 09		



Model: 04. RAS-2.5WHVRP1 RWD-2.5RW1E-220S - with cooling kit

Configure model	
Model name	04. RAS-2.5WHVRP1 RWD-2.5RW1E-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	6.00 kW	6.00 kW
El input	1.25 kW	2.08 kW
СОР	4.80	2.85

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	1.47 kW	1.24 kW
Cooling capacity	5.30	6.30
EER	3.60	5.10

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	5.30 kW	6.30 kW
SEER	5.48	8.50
Pdc Tj = 35°C	5.30 kW	6.30 kW
EER Tj = 35°C	3.60	5.30
Pdc Tj = 30°C	3.91 kW	4.64 kW
EER Tj = 30°C	4.50	7.00
Cdc	0.900	0.900
Pdc Tj = 25°C	2.51 kW	2.98 kW
EER Tj = 25°C	6.30	9.90
Cdc	0.900	0.900
Pdc Tj = 20°C	2.88 kW	2.65 kW
EER Tj = 20°C	8.20	12.61
Cdc	0.900	0.900
Poff	12 W	12 W
РТО	o w	o w
PSB	12 W	12 W
PCK	o w	o w
Annual energy consumption Qce	581 kWh	445 kWh





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	128 %
Prated	6.00 kW	5.00 kW
SCOP	4.57	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.10 kW	4.42 kW
COP Tj = -7°C	2.70	1.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.10 kW	2.69 kW
COP Tj = +2°C	4.60	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	6.20	4.95
Cdh Tj = +7 °C	0.900	0.900





3.05 kW	2.80 kW
8.35	6.78
0.900	0.900
5.10 kW	4.42 kW
2.70	1.65
5.30 kW	3.90 kW
2.50	1.70
0.900	0.900
55 °C	55 °C
12 W	12 W
0 W	0 W
12 W	12 W
0 W	0 W
Electricity	Electricity
0.70 kW	1.10 kW
2608 kWh	3143 kWh
	8.35 0.900 5.10 kW 2.70 5.30 kW 2.50 0.900 55 °C 12 W 0 W 12 W 0 W Electricity 0.70 kW

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: 03. RAS-2.5WHVRP1 RWD-2.5RW1E-220S - Heating Only

Configure model	
Model name	03. RAS-2.5WHVRP1 RWD-2.5RW1E-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	6.00 kW	6.00 kW	
El input	1.25 kW	2.08 kW	
СОР	4.80	2.85	

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

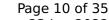
Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	5.30 kW	6.30 kW
Cooling capacity	1.47	1.24
EER	3.60	5.10

EN 14825



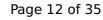


	+7°C/+12°C	+18°C/+23°C
Pdesignc	5.30 kW	6.30 kW
SEER	5.48	8.46
Pdc Tj = 35°C	5.30 kW	6.30 kW
EER Tj = 35°C	3.60	5.10
Pdc Tj = 30°C	3.91 kW	4.64 kW
EER Tj = 30°C	4.50	7.00
Cdc	0.900	0.900
Pdc Tj = 25°C	2.51 kW	2.98 kW
EER Tj = 25°C	6.30	9.90
Cdc	0.900	0.900
Pdc Tj = 20°C	2.88 kW	2.65 kW
EER Tj = 20°C	8.20	12.61
Cdc	0.900	0.900
Poff	12 W	12 W
РТО	o w	o w
PSB	12 W	12 W
PCK	o w	o w
Annual energy consumption Qce	581 kWh	445 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	177 %	127 %
Prated	6.00 kW	5.00 kW
SCOP	4.57	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.10 kW	4.42 kW
COP Tj = -7°C	2.70	1.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.10 kW	2.69 kW
COP Tj = +2°C	4.60	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	6.20	4.95
Cdh Tj = +7 °C	0.900	0.900





3.05 kW	2.80 kW
8.35	6.78
0.900	0.900
5.10 kW	4.42 kW
2.70	1.65
5.30 kW	3.90 kW
2.50	1.70
0.900	0.900
55 °C	55 °C
12 W	12 W
0 W	0 W
12 W	12 W
0 W	0 W
Electricity	Electricity
0.70 kW	1.10 kW
2652 kWh	3186 kWh
	8.35 0.900 5.10 kW 2.70 5.30 kW 2.50 0.900 55 °C 12 W 0 W 12 W 0 W Electricity 0.70 kW

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-2.5WHVRP1 RWD-2.5RW1E-220S-K - UK Version - Heating Only

Configure model		
Model name	05. RAS-2.5WHVRP1 RWD-2.5RW1E-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	

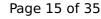
General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.25 kW	2.08 kW
СОР	4.80	2.85

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

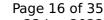
Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	5.30 kW	6.30 kW
Cooling capacity	1.47	1.24
EER	3.60	5.10

EN 14825





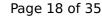
	+7°C/+12°C	+18°C/+23°C
Pdesignc	5.30 kW	6.30 kW
SEER	5.48	8.46
Pdc Tj = 35°C	5.30 kW	6.30 kW
EER Tj = 35°C	3.60	5.10
Pdc Tj = 30°C	3.91 kW	4.64 kW
EER Tj = 30°C	4.50	7.00
Cdc	0.900	0.900
Pdc Tj = 25°C	2.51 kW	2.98 kW
EER Tj = 25°C	6.30	9.90
Cdc	0.900	0.900
Pdc Tj = 20°C	2.88 kW	2.65 kW
EER Tj = 20°C	8.20	12.61
Cdc	0.900	0.900
Poff	12 W	12 W
РТО	o w	o w
PSB	12 W	12 W
PCK	o w	o w
Annual energy consumption Qce	581 kWh	445 kWh





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	177 %	127 %
Prated	6.00 kW	5.00 kW
SCOP	4.57	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.10 kW	4.42 kW
COP Tj = -7°C	2.70	1.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.10 kW	2.69 kW
COP Tj = +2°C	4.60	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.00 kW	2.43 kW
$COP Tj = +7^{\circ}C$	6.20	4.95
Cdh Tj = +7 °C	0.900	0.900





3.05 kW	2.80 kW
8.35	6.78
0.900	0.900
5.10 kW	4.42 kW
2.70	1.65
5.30 kW	3.90 kW
2.50	1.70
0.900	0.900
55 °C	55 °C
12 W	12 W
0 W	0 W
12 W	12 W
0 W	0 W
Electricity	Electricity
0.70 kW	1.10 kW
2652 kWh	3186 kWh
	8.35 0.900 5.10 kW 2.70 5.30 kW 2.50 0.900 55 °C 12 W 0 W 12 W 0 W Electricity 0.70 kW

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-2.5WHVRP1 RWD-2.5RW1E-220S-K - UK Version - with cooling kit

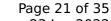
Configure model		
Model name	06. RAS-2.5WHVRP1 RWD-2.5RW1E-220S-K - UK Version - with cooling kit	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C	

	General Data	
Power supply 1x230V 50Hz		

Heating

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.25 kW	2.08 kW
СОР	4.80	2.85

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

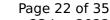




Cooling

EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	1.47 kW	1.24 kW
Cooling capacity	5.30	6.30
EER	3.60	5.10

EN 14825





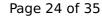
	+7°C/+12°C	+18°C/+23°C
Pdesignc	5.30 kW	6.30 kW
SEER	5.48	8.50
Pdc Tj = 35°C	5.30 kW	6.30 kW
EER Tj = 35°C	3.60	5.30
Pdc Tj = 30°C	3.91 kW	4.64 kW
EER Tj = 30°C	4.50	7.00
Cdc	0.900	0.900
Pdc Tj = 25°C	2.51 kW	2.98 kW
EER Tj = 25°C	6.30	9.90
Cdc	0.900	0.900
Pdc Tj = 20°C	2.88 kW	2.65 kW
EER Tj = 20°C	8.20	12.61
Cdc	0.900	0.900
Poff	12 W	12 W
РТО	o w	o w
PSB	12 W	12 W
PCK	o w	o w
Annual energy consumption Qce	581 kWh	445 kWh





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825				
Low temperature Medium tempera				
η_{s}	180 %	128 %		
Prated	6.00 kW	5.00 kW		
SCOP	4.57	3.28		
Tbiv	-7 °C	-7 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7°C	5.10 kW	4.42 kW		
COP Tj = -7°C	2.70	1.65		
Cdh Tj = -7 °C	0.900	0.900		
Pdh Tj = +2°C	3.10 kW	2.69 kW		
COP Tj = +2°C	4.60	3.30		
Cdh Tj = +2 °C	0.900	0.900		
Pdh Tj = +7°C	3.00 kW	2.43 kW		
COP Tj = +7°C	6.20	4.95		
Cdh Tj = +7 °C	0.900	0.900		





3.05 kW	2.80 kW
8.35	6.78
0.900	0.900
5.10 kW	4.42 kW
2.70	1.65
5.30 kW	3.90 kW
2.50	1.70
0.900	0.900
55 °C	55 °C
12 W	12 W
0 W	0 W
12 W	12 W
0 W	0 W
Electricity	Electricity
0.70 kW	1.10 kW
2608 kWh	3143 kWh
	8.35 0.900 5.10 kW 2.70 5.30 kW 2.50 0.900 55 °C 12 W 0 W 12 W 0 W Electricity 0.70 kW

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: 01. RAS-2.5WHVRP1 RWM-2.5R1E -**Heating Only**

Configure model		
Model name 01. RAS-2.5WHVRP1 RWM-2.5R1E - Heating Only		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility No		
Cooling mode application (optional) n/a		

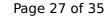
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	6.00 kW	6.00 kW	
El input	1.25 kW	2.08 kW	
СОР	4.80	2.85	

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

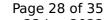
Cooling





EN 14511-2		
+7°C/+12°C +18°C/+23°C		
El input	5.30 kW	6.30 kW
Cooling capacity	1.47	1.24
EER	3.60	5.10

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	5.30 kW	6.30 kW
SEER	5.48	8.46
Pdc Tj = 35°C	5.30 kW	6.30 kW
EER Tj = 35°C	3.60	5.10
Pdc Tj = 30°C	3.91 kW	4.64 kW
EER Tj = 30°C	4.50	7.00
Cdc	0.900	0.900
Pdc Tj = 25°C	2.51 kW	2.98 kW
EER Tj = 25°C	6.30	9.90
Cdc	0.900	0.900
Pdc Tj = 20°C	2.88 kW	2.65 kW
EER Tj = 20°C	8.20	12.61
Cdc	0.900	0.900
Poff	12 W	12 W
РТО	o w	o w
PSB	12 W	12 W
PCK	o w	o w
Annual energy consumption Qce	581 kWh	445 kWh





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	177 %	127 %
Prated	6.00 kW	5.00 kW
SCOP	4.57	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.10 kW	4.42 kW
COP Tj = -7°C	2.70	1.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.10 kW	2.69 kW
COP Tj = +2°C	4.60	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	6.20	4.95
Cdh Tj = +7 °C	0.900	0.900



Page 30 of 35

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	8.35	6.78
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.10 kW	4.42 kW
COP Tj = Tbiv	2.70	1.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.30 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.70
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	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.70 kW	1.10 kW
Annual energy consumption Qhe	2652 kWh	3186 kWh



Model: 02. RAS-2.5WHVRP1 RWM-2.5R1E - with cooling kit

Configure model		
Model name	02. RAS-2.5WHVRP1 RWM-2.5R1E - 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	

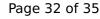
General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.25 kW	2.08 kW
СОР	4.80	2.85

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

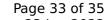
Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	1.47 kW	1.24 kW
Cooling capacity	5.30	6.30
EER	3.60	5.10

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	5.30 kW	6.30 kW
SEER	5.48	8.50
Pdc Tj = 35°C	5.30 kW	6.30 kW
EER Tj = 35°C	3.60	5.30
Pdc Tj = 30°C	3.91 kW	4.64 kW
EER Tj = 30°C	4.50	7.00
Cdc	0.900	0.900
Pdc Tj = 25°C	2.51 kW	2.98 kW
EER Tj = 25°C	6.30	9.90
Cdc	0.900	0.900
Pdc Tj = 20°C	2.88 kW	2.65 kW
EER Tj = 20°C	8.20	12.61
Cdc	0.900	0.900
Poff	12 W	12 W
РТО	o w	o w
PSB	12 W	12 W
PCK	o w	o w
Annual energy consumption Qce	581 kWh	445 kWh





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	128 %
Prated	6.00 kW	5.00 kW
SCOP	4.57	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.10 kW	4.42 kW
COP Tj = -7°C	2.70	1.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.10 kW	2.69 kW
COP Tj = +2°C	4.60	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	6.20	4.95
Cdh Tj = +7 °C	0.900	0.900



Page 35 of 35

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	8.35	6.78
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.10 kW	4.42 kW
COP Tj = Tbiv	2.70	1.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.30 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.70
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	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.70 kW	1.10 kW
Annual energy consumption Qhe	2608 kWh	3143 kWh