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Summary of	29. Yutaki S (R1) & S Combi (RW1) 220L 3HP R32	Reg. No.	041-K002-50
Certificate Holder			
Name	ame Johnson Controls-Hitachi AirConditioning Spain		
Address	Ronda Shimizu, 1. Pol. Ind. Can Torrella Zip 08233		08233
City	Vacarisses, Barcelona	Country	Spain
Certification Body	BRE Global Limited		
Subtype title	29. Yutaki S (R1) & S Combi (RW1) 220L 3HP R32		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	rigerant 1.3 kg		
Certification Date	e 08.02.2022		
resting basis Heat Pump Keymark Scheme Rules Rev 09			

Model: 03. RAS-3WHVRP1 RWD-3.0RW1E-220S - Heating Only

Configure model		
Model name	03. RAS-3WHVRP1 RWD-3.0RW1E-220S - Heating Only	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

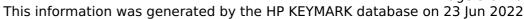
General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8.00 kW	8.00 kW	
El input	1.74 kW	2.86 kW	
СОР	4.60	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	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	177 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.50	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.65	1.84
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.30	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.20 kW	2.00 kW
COP Tj = +7°C	7.00	4.65
Cdh Tj = +7 °C	0.900	0.900





3.50 kW	2.20 kW
9.70	6.55
0.900	0.900
5.90 kW	5.10 kW
2.65	1.84
5.60 kW	5.00 kW
2.30	1.50
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
1.40 kW	1.00 kW
3068 kWh	3723 kWh
	9.70 0.900 5.90 kW 2.65 5.60 kW 2.30 0.900 55 °C 12 W 0 W 12 W 0 W Electricity 1.40 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: 04. RAS-3WHVRP1 RWD-3.0RW1E-220S - with cooling kit

Configure model		
Model name	04. RAS-3WHVRP1 RWD-3.0RW1E-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	8.00 kW	8.00 kW	
El input	1.74 kW	2.86 kW	
СОР	4.60	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	1.94 kW	1.46 kW	
Cooling capacity	6.50	7.00	
EER	3.35	4.80	

EN 14825



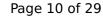


	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.50 kW	7.00 kW
SEER	5.27	8.31
Pdc Tj = 35°C	6.50 kW	7.00 kW
EER Tj = 35°C	3.35	4.80
Pdc Tj = 30°C	4.79 kW	5.16 kW
EER Tj = 30°C	4.50	6.40
Cdc	0.900	0.900
Pdc Tj = 25°C	2.90 kW	3.32 kW
EER Tj = 25°C	6.00	10.00
Cdc	0.900	0.900
Pdc Tj = 20°C	3.40 kW	3.60 kW
EER Tj = 20°C	7.50	13.50
Cdc	0.900	0.900
Poff	o w	o w
РТО	12 W	12 W
PSB	o w	o w
PCK	12 W	12 W
Annual energy consumption Qce	740 kWh	505 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

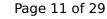
EN 14825		
	Low temperature	Medium temperature
η_{s}	179 %	126 %
Prated	7.00 kW	6.00 kW
SCOP	4.50	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.65	1.84
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.30	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.20 kW	2.00 kW
COP Tj = +7°C	7.00	4.65
Cdh Tj = +7 °C	0.900	0.900





This information was generated by the Till RETPINIAL addabase on 25 July 2022			
Pdh Tj = 12°C	3.50 kW	2.20 kW	
COP Tj = 12°C	9.70	6.55	
Cdh Tj = +12 °C	0.900	0.900	
Pdh Tj = Tbiv	5.90 kW	5.10 kW	
COP Tj = Tbiv	2.65	1.84	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.00 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.50	
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	o w	0 W	
PSB	12 W	12 W	
PCK	0 W	0 W	
Supplementary Heater: Type of energy input	Electricity	Electricity	
Supplementary Heater: PSUP	1.40 kW	1.00 kW	
Annual energy consumption Qhe	3024 kWh	3680 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: 05. RAS-3WHVRP1 RWD-3.0RW1E-220S-K - UK Version - Heating Only

Configure model		
Model name	05. RAS-3WHVRP1 RWD-3.0RW1E-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	8.00 kW	8.00 kW	
El input	1.74 kW	2.86 kW	
СОР	4.60	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	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	177 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.50	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.65	1.84
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.30	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.20 kW	2.00 kW
COP Tj = +7°C	7.00	4.65
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	3.50 kW	2.20 kW
COP Tj = 12°C	9.70	6.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.90 kW	5.10 kW
COP Tj = Tbiv	2.65	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.50
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	1.40 kW	1.00 kW
Annual energy consumption Qhe	3068 kWh	3723 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: 06. RAS-3WHVRP1 RWD-3.0RW1E-220S-K - UK Version with cooling kit

Configure model		
Model name	06. RAS-3WHVRP1 RWD-3.0RW1E-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	

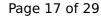
General Data	
Power supply 1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.74 kW	2.86 kW
СОР	4.60	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

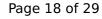
Cooling





EN 14511-2			
+7°C/+12°C +18°C/+23°C			
El input	1.94 kW	1.46 kW	
Cooling capacity	6.50	7.00	
EER	3.35	4.80	

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.50 kW	7.00 kW
SEER	5.27	8.31
Pdc Tj = 35°C	6.50 kW	7.00 kW
EER Tj = 35°C	3.35	4.80
Pdc Tj = 30°C	4.79 kW	5.16 kW
EER Tj = 30°C	4.50	6.40
Cdc	0.900	0.900
Pdc Tj = 25°C	2.90 kW	3.32 kW
EER Tj = 25°C	6.00	10.00
Cdc	0.900	0.900
Pdc Tj = 20°C	3.40 kW	3.60 kW
EER Tj = 20°C	7.50	13.50
Cdc	0.900	0.900
Poff	o w	o w
РТО	12 W	12 W
PSB	o w	o w
PCK	12 W	12 W
Annual energy consumption Qce	740 kWh	505 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	179 %	126 %
Prated	7.00 kW	6.00 kW
SCOP	4.50	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.65	1.84
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.30	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.20 kW	2.00 kW
COP Tj = +7°C	7.00	4.65
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	3.50 kW	2.20 kW
COP Tj = 12°C	9.70	6.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.90 kW	5.10 kW
COP Tj = Tbiv	2.65	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.50
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	1.40 kW	1.00 kW
Annual energy consumption Qhe	3024 kWh	3680 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: 01. RAS-3WHVRP1 RWM-3.0R1E - Heating Only

Configure model		
Model name 01. RAS-3WHVRP1 RWM-3.0R1E - 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	8.00 kW	8.00 kW
El input	1.74 kW	2.86 kW
СОР	4.60	2.80

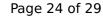
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	177 %	125 %	
Prated	7.00 kW	6.00 kW	
SCOP	4.50	3.20	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.90 kW	5.10 kW	
COP Tj = -7°C	2.65	1.84	
Cdh Tj = -7 °C	0.900	0.900	
Pdh Tj = +2°C	3.59 kW	3.10 kW	
COP Tj = +2°C	4.30	3.10	
Cdh Tj = +2 °C	0.900	0.900	
Pdh Tj = +7°C	3.20 kW	2.00 kW	
COP Tj = +7°C	7.00	4.65	
Cdh Tj = +7 °C	0.900	0.900	





Pdh Tj = 12°C	3.50 kW	2.20 kW
COP Tj = 12°C	9.70	6.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.90 kW	5.10 kW
COP Tj = Tbiv	2.65	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.50
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	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.40 kW	1.00 kW
Annual energy consumption Qhe	3068 kWh	3723 kWh

Model: 02. RAS-3WHVRP1 RWM-3.0R1E - with cooling kit

Configure model		
Model name	02. RAS-3WHVRP1 RWM-3.0R1E - 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	8.00 kW	8.00 kW
El input	1.74 kW	2.86 kW
СОР	4.60	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

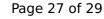
Cooling





EN 14511-2				
	+7°C/+12°C	+18°C/+23°C		
El input	1.94 kW	1.46 kW		
Cooling capacity	6.50	7.00		
EER	3.35	4.80		

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.50 kW	7.00 kW
SEER	5.27	8.31
Pdc Tj = 35°C	6.50 kW	7.00 kW
EER Tj = 35°C	3.35	4.80
Pdc Tj = 30°C	4.79 kW	5.16 kW
EER Tj = 30°C	4.50	6.40
Cdc	0.900	0.900
Pdc Tj = 25°C	2.90 kW	3.32 kW
EER Tj = 25°C	6.00	10.00
Cdc	0.900	0.900
Pdc Tj = 20°C	3.40 kW	3.60 kW
EER Tj = 20°C	7.50	13.50
Cdc	0.900	0.900
Poff	o w	o w
РТО	12 W	12 W
PSB	o w	o w
PCK	12 W	12 W
Annual energy consumption Qce	740 kWh	505 kWh



EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	37 dB(A)	37 dB(A)		
Sound power level outdoor	57 dB(A)	57 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
η_{s}	179 %	126 %	
Prated	7.00 kW	6.00 kW	
SCOP	4.50	3.20	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.90 kW	5.10 kW	
COP Tj = -7°C	2.65	1.84	
Cdh Tj = -7 °C	0.900	0.900	
Pdh Tj = +2°C	3.59 kW	3.10 kW	
COP Tj = +2°C	4.30	3.10	
Cdh Tj = +2 °C	0.900	0.900	
Pdh Tj = +7°C	3.20 kW	2.00 kW	
COP Tj = +7°C	7.00	4.65	
Cdh Tj = +7 °C	0.900	0.900	





Pdh Tj = 12°C	3.50 kW	2.20 kW
COP Tj = 12°C	9.70	6.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.90 kW	5.10 kW
COP Tj = Tbiv	2.65	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.50
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	o w	o w
PSB	12 W	12 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.40 kW	1.00 kW
Annual energy consumption Qhe	3024 kWh	3680 kWh