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Summary of	29. Yutaki S (R1) & S Combi (RW1) 220L 3HP R32	Reg. No.	041-K002-50
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	/pe title 29. Yutaki S (R1) & S Combi (RW1) 220L 3HP R32		
eat Pump Type Outdoor Air/Water			
R32			
Mass of Refrigerant	ass of Refrigerant 1.3 kg		
Certification Date	Certification Date 08.02.2022		
Testing 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





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: 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

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)

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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
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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	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

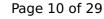
Cooling





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

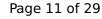
EN 14825





This information was generated by the HP KETMARK database on 16 Mar 202				
	+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	0 W		
РТО	12 W	12 W		
PSB	o w	o w		
PCK	12 W	12 W		
Annual energy consumption Qce	740 kWh	505 kWh		
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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)

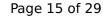
EN 14825		
	Low temperature	Medium temperature
η_{s}	177 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.50	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.65	1.84
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.30	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh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

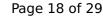
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.00 kW	8.00 kW	
El input	1.74 kW	2.86 kW	
СОР	4.60	2.80	

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



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)

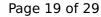
EN 14825		
	Low temperature	Medium temperature
η_{s}	179 %	126 %
Prated	7.00 kW	6.00 kW
SCOP	4.50	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.65	1.84
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.30	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh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





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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	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

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

Domestic Hot Water (DHW)



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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



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

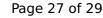
EN 14511-2		
Low temperature Medium temperature		
Heat output	8.00 kW	8.00 kW
El input	1.74 kW	2.86 kW
СОР	4.60	2.80

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



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

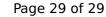
Cooling





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
РСК	12 W	12 W
Annual energy consumption Qce	740 kWh	505 kWh