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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	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
COP	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

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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
PTO	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	0.00 kW	0.90 kW
Annual energy consumption Qhe	1811 kWh	2463 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	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 l

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
COP	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

Cooling

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

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

EN 14825

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	+7°C/+12°C	+18°C/+23°C
P _{designc}	4.00 kW	5.50 kW
SEER	5.57	8.04
P _{dc} T _j = 35°C	4.00 kW	5.50 kW
EER T _j = 35°C	4.00	5.40
P _{dc} T _j = 30°C	2.95 kW	4.05 kW
EER T _j = 30°C	5.00	7.20
C _{dc}		
P _{dc} T _j = 25°C	2.05 kW	2.61 kW
EER T _j = 25°C	6.45	9.60
C _{dc}		
P _{dc} T _j = 20°C	2.88 kW	2.51 kW
EER T _j = 20°C	8.00	10.30
C _{dc}		
P _{off}	12 W	12 W
P _{TO}	0 W	0 W
P _{SB}	12 W	12 W
P _{CK}	0 W	0 W
Annual energy consumption Q _{ce}	431 kWh	410 kWh

Average Climate

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

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	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
PTO	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	0.00 kW	0.90 kW
Annual energy consumption Qhe	1767 kWh	2420 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	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 l

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
COP	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

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	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
PTO	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	0.00 kW	0.90 kW
Annual energy consumption Qhe	1811 kWh	2463 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	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 l

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
COP	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

Cooling

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

EN 14825

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	+7°C/+12°C	+18°C/+23°C
P _{designc}	4.00 kW	5.50 kW
SEER	5.57	8.04
P _{dc} T _j = 35°C	4.00 kW	5.50 kW
EER T _j = 35°C	4.00	5.40
P _{dc} T _j = 30°C	2.95 kW	4.05 kW
EER T _j = 30°C	5.00	7.20
C _{dc}		
P _{dc} T _j = 25°C	2.05 kW	2.61 kW
EER T _j = 25°C	6.45	9.60
C _{dc}		
P _{dc} T _j = 20°C	2.88 kW	2.51 kW
EER T _j = 20°C	8.00	10.30
C _{dc}		
P _{off}	12 W	12 W
P _{TO}	0 W	0 W
P _{SB}	12 W	12 W
P _{CK}	0 W	0 W
Annual energy consumption Q _{ce}	431 kWh	410 kWh

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

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	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
PTO	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	0.00 kW	0.90 kW
Annual energy consumption Qhe	1767 kWh	2420 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	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 l

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
COP	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

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	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
PTO	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	0.00 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
COP	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

Cooling

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

EN 14825

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

	+7°C/+12°C	+18°C/+23°C
P _{designc}	4.00 kW	5.50 kW
SEER	5.57	8.04
P _{dc} T _j = 35°C	4.00 kW	5.50 kW
EER T _j = 35°C	4.00	5.40
P _{dc} T _j = 30°C	2.95 kW	4.05 kW
EER T _j = 30°C	5.00	7.20
C _{dc}		
P _{dc} T _j = 25°C	2.05 kW	2.61 kW
EER T _j = 25°C	6.45	9.60
C _{dc}		
P _{dc} T _j = 20°C	2.88 kW	2.51 kW
EER T _j = 20°C	8.00	10.30
C _{dc}		
P _{off}	12 W	12 W
P _{TO}	0 W	0 W
P _{SB}	12 W	12 W
P _{CK}	0 W	0 W
Annual energy consumption Q _{ce}	431 kWh	410 kWh

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

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	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
PTO	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	0.00 kW	0.90 kW
Annual energy consumption Qhe	1767 kWh	2420 kWh