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Summary of	31. Yutaki S (N1) & S Combi (NW1) 220L 4HP R410A (3ph) Reg. No. 041-K002		041-K002-52
Certificate Holder	Certificate Holder		
Name	Johnson Controls-Hitachi AirConditioning Spain		
Address	Ronda Shimizu, 1. Pol. Ind. Can Torrella Zip 08233		08233
City	ity Vacarisses, Barcelona Country Spain		Spain
Certification Body	ification Body BRE Global Limited		
Subtype title 31. Yutaki S (N1) & S Combi (NW1) 220L 4HP R410A (3ph)			
Heat Pump Type Outdoor Air/Water			
Refrigerant R410A			
Mass of Refrigerant 3.3 kg			
Certification Date	Certification Date 08.02.2022		
Testing basis	Testing basis Heat Pump Keymark Scheme Rules Rev 09		

Model: 03. RAS-4WHNPE RWD-4.0NW1E-220S - Heating Only

Configure model		
Model name 03. RAS-4WHNPE RWD-4.0NW1E-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	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
СОР	5.00	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	39 dB(A)	39 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	135 %
Prated	11.00 kW	10.00 kW
SCOP	4.58	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.45 kW	8.60 kW
COP Tj = -7°C	3.05	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.75 kW	5.23 kW
COP Tj = +2°C	4.50	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.70 kW	3.52 kW
COP Tj = +7°C	6.00	4.80
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	7.50	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.45 kW	8.60 kW
COP Tj = Tbiv	3.05	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	19 W	19 W
РТО	0 W	0 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	2.60 kW
Annual energy consumption Qhe	4823 kWh	5837 kWh

Domestic Hot Water (DHW)



EN 16147	
Declared load profile	L
Efficiency ηDHW	127 %
СОР	3.10
Heating up time	1:05 h:min
Standby power input	34.0 W
Reference hot water temperature	52.6 °C
Mixed water at 40°C	288 I



Model: 04. RAS-4WHNPE RWD-4.0NW1E-220S - with cooling kit

Configure model		
Model name	04. RAS-4WHNPE RWD-4.0NW1E-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	

Gener	al Data
Power supply	n/a

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
СОР	5.00	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	1.87 kW	2.31 kW
Cooling capacity	7.20	10.40
EER	3.84	4.50

EN 14825





+7°C/+12°C +18°C/+23°		
Pdesignc	7.20 kW	10.40 kW
SEER	5.00	6.22
Pdc Tj = 35°C	7.20 kW	10.40 kW
EER Tj = 35°C	3.84	4.50
Pdc Tj = 30°C	5.30 kW	7.66 kW
EER Tj = 30°C	4.60	6.30
Cdc	0.900	0.900
Pdc Tj = 25°C	3.50 kW	4.93 kW
EER Tj = 25°C	5.80	7.20
Cdc	0.900	0.900
Pdc Tj = 20°C	3.60 kW	5.10 kW
EER Tj = 20°C	7.50	8.20
Cdc	0.900	0.900
Poff	19 W	19 W
РТО	o w	o w
PSB	19 W	19 W
PCK	o w	o w
Annual energy consumption Qce	504 kWh	585 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	183 %	136 %
Prated	11.00 kW	10.00 kW
SCOP	4.64	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.45 kW	8.60 kW
COP Tj = -7°C	3.05	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.75 kW	5.23 kW
COP Tj = +2°C	4.50	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.70 kW	3.52 kW
COP Tj = +7°C	6.00	4.80
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	7.50	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.45 kW	8.60 kW
COP Tj = Tbiv	3.05	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	19 W	19 W
РТО	0 W	0 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	2.60 kW
Annual energy consumption Qhe	4753 kWh	5767 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	127 %	
СОР	3.10	
Heating up time	1:05 h:min	
Standby power input	34.0 W	
Reference hot water temperature	52.6 °C	
Mixed water at 40°C	288	



Model: 05. RAS-4WHNPE RWD-4.0NW1E-220S-K - UK Version - Heating Only

Configure model		
Model name	05. RAS-4WHNPE RWD-4.0NW1E-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	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
СОР	5.00	3.00

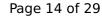
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	135 %
Prated	11.00 kW	10.00 kW
SCOP	4.58	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.45 kW	8.60 kW
COP Tj = -7°C	3.05	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.75 kW	5.23 kW
COP Tj = +2°C	4.50	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.70 kW	3.52 kW
COP Tj = +7°C	6.00	4.80
Cdh Tj = +7 °C	0.900	0.900





3.70 kW	3.60 kW
7.50	5.80
0.900	0.900
9.45 kW	8.60 kW
3.05	1.80
10.50 kW	7.40 kW
2.65	1.70
0.900	0.900
55 °C	55 °C
19 W	19 W
0 W	0 W
19 W	19 W
0 W	0 W
Electricity	Electricity
0.50 kW	2.60 kW
4823 kWh	5837 kWh
	7.50 0.900 9.45 kW 3.05 10.50 kW 2.65 0.900 55 °C 19 W 0 W 19 W 0 W Electricity 0.50 kW

Domestic Hot Water (DHW)



EN 16147	
Declared load profile	L
Efficiency ηDHW	127 %
СОР	3.10
Heating up time	1:05 h:min
Standby power input	34.0 W
Reference hot water temperature	52.6 °C
Mixed water at 40°C	288 I

Model: 06. RAS-4WHNPE RWD-4.0NW1E-220S-K - UK Version - with cooling kit

Configure model		
Model name	06. RAS-4WHNPE RWD-4.0NW1E-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	

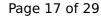
General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
СОР	5.00	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

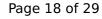
Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	1.87 kW	2.31 kW
Cooling capacity	7.20	10.40
EER	3.84	4.50

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.20 kW	10.40 kW
SEER	5.00	6.22
Pdc Tj = 35°C	7.20 kW	10.40 kW
EER Tj = 35°C	3.84	4.50
Pdc Tj = 30°C	5.30 kW	7.66 kW
EER Tj = 30°C	4.60	6.30
Cdc	0.900	0.900
Pdc Tj = 25°C	3.50 kW	4.93 kW
EER Tj = 25°C	5.80	7.20
Cdc	0.900	0.900
Pdc Tj = 20°C	3.60 kW	5.10 kW
EER Tj = 20°C	7.50	8.20
Cdc	0.900	0.900
Poff	19 W	19 W
РТО	o w	o w
PSB	19 W	19 W
PCK	o w	o w
Annual energy consumption Qce	504 kWh	585 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	183 %	136 %
Prated	11.00 kW	10.00 kW
SCOP	4.64	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.45 kW	8.60 kW
COP Tj = -7°C	3.05	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.75 kW	5.23 kW
COP Tj = +2°C	4.50	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.70 kW	3.52 kW
COP Tj = +7°C	6.00	4.80
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	7.50	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.45 kW	8.60 kW
COP Tj = Tbiv	3.05	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	19 W	19 W
РТО	0 W	0 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	2.60 kW
Annual energy consumption Qhe	4753 kWh	5767 kWh

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	127 %	
СОР	3.10	
Heating up time	1:05 h:min	
Standby power input	34.0 W	
Reference hot water temperature	52.6 °C	
Mixed water at 40°C	288 I	

Model: 01. RAS-4WHNPE RWM-4.0N1E - Heating Only

Configure model		
Model name	01. RAS-4WHNPE RWM-4.0N1E - 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 3x400V 50Hz		

Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
СОР	5.00	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	39 dB(A)	39 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	135 %
Prated	11.00 kW	10.00 kW
SCOP	4.58	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.45 kW	8.60 kW
COP Tj = -7°C	3.05	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.75 kW	5.23 kW
COP Tj = +2°C	4.50	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.70 kW	3.52 kW
COP Tj = +7°C	6.00	4.80
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	7.50	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.45 kW	8.60 kW
COP Tj = Tbiv	3.05	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	19 W	19 W
РТО	0 W	0 W
PSB	19 W	19 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	2.60 kW
Annual energy consumption Qhe	4823 kWh	5837 kWh

Model: 02. RAS-4WHNPE RWM-4.0N1E - with cooling kit

Configure model		
Model name	02. RAS-4WHNPE RWM-4.0N1E - with cooling kit	
Application Heating (medium temp)		
Jnits Indoor + Outdoor		
Climate Zone n/a		
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C	

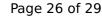
General Data		
Power supply 3x400V 50Hz		

Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
СОР	5.00	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	

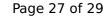
Cooling





EN 14511-2			
	+7°C/+12°C	+18°C/+23°C	
El input	1.87 kW	2.31 kW	
Cooling capacity	7.20	10.40	
EER	3.84	4.50	

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.20 kW	10.40 kW
SEER	5.00	6.22
Pdc Tj = 35°C	7.20 kW	10.40 kW
EER Tj = 35°C	3.84	4.50
Pdc Tj = 30°C	5.30 kW	7.66 kW
EER Tj = 30°C	4.60	6.30
Cdc	0.900	0.900
Pdc Tj = 25°C	3.50 kW	4.93 kW
EER Tj = 25°C	5.80	7.20
Cdc	0.900	0.900
Pdc Tj = 20°C	3.60 kW	5.10 kW
EER Tj = 20°C	7.50	8.20
Cdc	0.900	0.900
Poff	19 W	19 W
РТО	o w	o w
PSB	19 W	19 W
PCK	o w	o w
Annual energy consumption Qce	504 kWh	585 kWh





EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor	58 dB(A)	58 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	183 %	136 %
Prated	11.00 kW	10.00 kW
SCOP	4.64	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.45 kW	8.60 kW
COP Tj = -7°C	3.05	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.75 kW	5.23 kW
COP Tj = +2°C	4.50	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.70 kW	3.52 kW
COP Tj = +7°C	6.00	4.80
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	7.50	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.45 kW	8.60 kW
COP Tj = Tbiv	3.05	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	19 W	19 W
РТО	o w	0 W
PSB	19 W	19 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	2.60 kW
Annual energy consumption Qhe	4753 kWh	5767 kWh