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Summary of	32. Yutaki S (N1) & S Combi (NW1) 220L 5HP R410A	Reg. No.	041-K002-53
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	32. Yutaki S (N1) & S Combi (NW1) 220L 5HP R410A		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	3.4 kg		
Certification Date	08.02.2022		
Testing basis	Heat Pump Keymark Scheme Rules Rev 09		

Model: 03. RAS-5WHVNPE RWD-5.0NW1E-220S - Heating Only

Configure model	
Model name	03. RAS-5WHVNPE RWD-5.0NW1E-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	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
COP	4.71	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

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	183 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.65	3.39
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.70 kW	4.01 kW
COP Tj = +7°C	6.54	4.60
Cdh Tj = +7 °C	0.900	0.900

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Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	7.55	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	3.00 kW
Annual energy consumption Qhe	6022 kWh	7066 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	127 %
COP	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 l

Model: 04. RAS-5WHVNPE RWD-5.0NW1E-220S - with cooling kit

Configure model	
Model name	04. RAS-5WHVNPE RWD-5.0NW1E-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

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
COP	4.71	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	39 dB(A)	39 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	185 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.69	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.70 kW	4.01 kW
COP Tj = +7°C	6.54	4.60
Cdh Tj = +7 °C	0.900	0.900

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Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	7.55	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	3.00 kW
Annual energy consumption Qhe	5974 kWh	7018 kWh

Cooling

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.79 kW	2.88 kW
Cooling capacity	9.50	12.90
EER	3.40	4.48

EN 14825

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	+7°C/+12°C	+18°C/+23°C
P _{designc}	9.50 kW	12.90 kW
SEER	5.34	8.14
P _{dc} T _j = 35°C	9.50 kW	12.90 kW
EER T _j = 35°C	3.40	4.48
P _{dc} T _j = 30°C	7.00 kW	9.51 kW
EER T _j = 30°C	4.75	7.11
C _{dc}	0.900	0.900
P _{dc} T _j = 25°C	4.50 kW	7.20 kW
EER T _j = 25°C	5.88	9.98
C _{dc}	0.900	0.900
P _{dc} T _j = 20°C	3.20 kW	7.80 kW
EER T _j = 20°C	7.84	12.97
C _{dc}	0.900	0.900
P _{off}	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	623 kWh	554 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	127 %
COP	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 l

Model: 05. RAS-5WHVNPE RWD-5.0NW1E-220S-K - UK Version - Heating Only

Configure model	
Model name	05. RAS-5WHVNPE RWD-5.0NW1E-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	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
COP	4.71	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	39 dB(A)	39 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	183 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.65	3.39
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.70 kW	4.01 kW
COP Tj = +7°C	6.54	4.60
Cdh Tj = +7 °C	0.900	0.900

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	7.55	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	3.00 kW
Annual energy consumption Qhe	6022 kWh	7066 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	127 %
COP	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 l

Model: 06. RAS-5WHVNPE RWD-5.0NW1E-220S-K - UK Version - with cooling kit

Configure model	
Model name	06. RAS-5WHVNPE RWD-5.0NW1E-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	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
COP	4.71	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	39 dB(A)	39 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	185 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.69	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.70 kW	4.01 kW
COP Tj = +7°C	6.54	4.60

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Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	7.55	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	3.00 kW
Annual energy consumption Qhe	5974 kWh	7018 kWh

Cooling

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.79 kW	2.88 kW
Cooling capacity	9.50	12.90
EER	3.40	4.48

EN 14825

This information was generated by the HP KEYMARK database on 18 Mar 2022

	+7°C/+12°C	+18°C/+23°C
P _{designc}	9.50 kW	12.90 kW
SEER	5.34	8.14
P _{dc} T _j = 35°C	9.50 kW	12.90 kW
EER T _j = 35°C	3.40	4.48
P _{dc} T _j = 30°C	7.00 kW	9.51 kW
EER T _j = 30°C	4.75	7.11
C _{dc}	0.900	0.900
P _{dc} T _j = 25°C	4.50 kW	7.20 kW
EER T _j = 25°C	5.88	9.98
C _{dc}	0.900	0.900
P _{dc} T _j = 20°C	3.20 kW	7.80 kW
EER T _j = 20°C	7.84	12.97
C _{dc}	0.900	0.900
P _{off}	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	623 kWh	554 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	127 %
COP	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 l

Model: 01. RAS-5WHVNPE RWM-5.0N1E - Heating Only

Configure model	
Model name	01. RAS-5WHVNPE RWM-5.0N1E - 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	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
COP	4.71	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	183 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.65	3.39
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.70 kW	4.01 kW
COP Tj = +7°C	6.54	4.60
Cdh Tj = +7 °C	0.900	0.900

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	7.55	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	3.00 kW
Annual energy consumption Qhe	6022 kWh	7066 kWh

Model: 02. RAS-5WHVNPE RWM-5.0N1E - with cooling kit

Configure model	
Model name	02. RAS-5WHVNPE RWM-5.0N1E - 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	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
COP	4.71	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	39 dB(A)	39 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	185 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.69	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.70 kW	4.01 kW
COP Tj = +7°C	6.54	4.60
Cdh Tj = +7 °C	0.900	0.900

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	7.55	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	3.00 kW
Annual energy consumption Qhe	5974 kWh	7018 kWh

Cooling

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.79 kW	2.88 kW
Cooling capacity	9.50	12.90
EER	3.40	4.48

EN 14825

This information was generated by the HP KEYMARK database on 18 Mar 2022

	+7°C/+12°C	+18°C/+23°C
P _{designc}	9.50 kW	12.90 kW
SEER	5.34	8.14
P _{dc} T _j = 35°C	9.50 kW	12.90 kW
EER T _j = 35°C	3.40	4.48
P _{dc} T _j = 30°C	7.00 kW	9.51 kW
EER T _j = 30°C	4.75	7.11
C _{dc}	0.900	0.900
P _{dc} T _j = 25°C	4.50 kW	7.20 kW
EER T _j = 25°C	5.88	9.98
C _{dc}	0.900	0.900
P _{dc} T _j = 20°C	3.20 kW	7.80 kW
EER T _j = 20°C	7.84	12.97
C _{dc}	0.900	0.900
P _{off}	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	623 kWh	554 kWh