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Summary of	35. Yutaki S (N1) & S Combi (NW1) 220L 6HP R410A (3ph)	Reg. No.	041-K002-56		
Certificate Holder	Certificate Holder				
Name	Johnson Controls-Hitachi AirConditioning Spain				
Address	Ronda Shimizu, 1. Pol. Ind. Can Torrella Zip 08233		08233		
City	Vacarisses, Barcelona	Country	Spain		
Certification Body	dy BRE Global Limited				
Subtype title	type title 35. Yutaki S (N1) & S Combi (NW1) 220L 6HP R410A (3ph)				
Heat Pump Type Outdoor Air/Water					
Refrigerant	R410A R410A				
Mass of Refrigerant 3.4 kg					
Certification Date	Certification Date 08.02.2022				
Testing basis Heat Pump Keymark Scheme Rules Rev 09					

Model: 03. RAS-6WHNPE RWD-6.0NW1E-220S - Heating Only

Configure model		
Model name 03. RAS-6WHNPE RWD-6.0NW1E-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	16.00 kW	16.00 kW	
El input	3.50 kW	6.40 kW	
СОР	4.57	2.50	

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	60 dB(A)	60 dB(A)

EN 14825				
	Low temperature	Medium temperature		
η_{s}	161 %	134 %		
Prated	16.00 kW	14.00 kW		
SCOP	4.11	3.41		
Tbiv	-7 °C	-7 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7 °C	13.80 kW	11.20 kW		
COP Tj = -7° C	2.40	1.94		
Cdh Tj = -7 °C	0.900	0.900		
Pdh Tj = $+2$ °C	8.40 kW	6.82 kW		
COP Tj = +2°C	3.90	3.35		
Cdh Tj = +2 °C	0.900	0.900		
Pdh Tj = $+7^{\circ}$ C	5.40 kW	4.38 kW		
COP Tj = +7°C	6.16	4.80		
Cdh Tj = +7 °C	0.900	0.900		





Pdh Tj = 12°C	3.50 kW	3.60 kW
COP Tj = 12°C	7.10	7.05
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.80 kW	11.20 kW
COP Tj = Tbiv	2.40	1.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.10 kW	10.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.40
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	1.90 kW	3.50 kW
Annual energy consumption Qhe	7844 kWh	7662 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-6WHNPE RWD-6.0NW1E-220S - with cooling kit

Configure model		
Model name	04. RAS-6WHNPE RWD-6.0NW1E-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	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	16.00 kW	16.00 kW
El input	3.50 kW	6.40 kW
СОР	4.57	2.50

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	3.25 kW	3.19 kW
Cooling capacity	10.50	13.50
EER	3.23	4.23

EN 14825



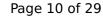


	+7°C/+12°C	+18°C/+23°C
Pdesignc	10.50 kW	13.50 kW
SEER	5.14	7.70
Pdc Tj = 35°C	10.50 kW	13.50 kW
EER Tj = 35°C	3.23	4.23
Pdc Tj = 30°C	7.80 kW	9.95 kW
EER Tj = 30°C	4.56	6.86
Cdc	0.900	0.900
Pdc Tj = 25°C	5.00 kW	7.20 kW
EER Tj = 25°C	5.77	9.54
Cdc	0.900	0.900
Pdc Tj = 20°C	3.20 kW	7.80 kW
EER Tj = 20°C	7.69	12.47
Cdc	0.900	0.900
Poff	19 W	19 W
РТО	o w	0 W
PSB	19 W	19 W
РСК	o w	0 W
Annual energy consumption Qce	715 kWh	613 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	163 %	135 %
Prated	16.00 kW	14.00 kW
SCOP	4.15	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.80 kW	11.20 kW
COP Tj = -7°C	2.40	1.94
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = $+2^{\circ}$ C	8.40 kW	6.82 kW
COP Tj = +2°C	3.90	3.35
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = $+7^{\circ}$ C	5.40 kW	4.38 kW
COP Tj = +7°C	6.16	4.80
Cdh Tj = +7 °C	0.900	0.900





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Pdh Tj = 12°C	3.50 kW	3.60 kW
COP Tj = 12°C	7.10	7.05
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.80 kW	11.20 kW
COP Tj = Tbiv	2.40	1.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.10 kW	10.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.40
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	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	3.50 kW
Annual energy consumption Qhe	7774 kWh	7592 kWh
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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-6WHNPE RWD-6.0NW1E-220S-K - UK Version - Heating Only

Configure model		
Model name	05. RAS-6WHNPE RWD-6.0NW1E-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	16.00 kW	16.00 kW
El input	3.50 kW	6.40 kW
СОР	4.57	2.50

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	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	161 %	134 %
Prated	16.00 kW	14.00 kW
SCOP	4.11	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.80 kW	11.20 kW
COP Tj = -7°C	2.40	1.94
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.40 kW	6.82 kW
COP Tj = +2°C	3.90	3.35
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.40 kW	4.38 kW
COP Tj = +7°C	6.16	4.80
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	3.50 kW	3.60 kW
COP Tj = 12°C	7.10	7.05
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.80 kW	11.20 kW
COP Tj = Tbiv	2.40	1.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.10 kW	10.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.40
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	19 W	19 W
PTO	0 W	0 W
PSB	19 W	19 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	3.50 kW
Annual energy consumption Qhe	7844 kWh	7662 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: 06. RAS-6WHNPE RWD-6.0NW1E-220S-K - UK Version - with cooling kit

Configure model		
Model name	06. RAS-6WHNPE RWD-6.0NW1E-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	

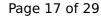
General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	16.00 kW	16.00 kW
El input	3.50 kW	6.40 kW
СОР	4.57	2.50

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

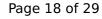
Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	3.25 kW	3.19 kW
Cooling capacity	10.50	13.50
EER	3.23	4.23

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	10.50 kW	13.50 kW
SEER	5.14	7.70
Pdc Tj = 35°C	10.50 kW	13.50 kW
EER Tj = 35°C	3.23	4.23
Pdc Tj = 30°C	7.80 kW	9.95 kW
EER Tj = 30°C	4.56	6.86
Cdc	0.900	0.900
Pdc Tj = 25°C	5.00 kW	7.20 kW
EER Tj = 25°C	5.77	9.54
Cdc	0.900	0.900
Pdc Tj = 20°C	3.20 kW	7.80 kW
EER Tj = 20°C	7.69	12.47
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	715 kWh	613 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	163 %	135 %
Prated	16.00 kW	14.00 kW
SCOP	4.15	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.80 kW	11.20 kW
COP Tj = -7°C	2.40	1.94
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.40 kW	6.82 kW
COP Tj = +2°C	3.90	3.35
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.40 kW	4.38 kW
COP Tj = +7°C	6.16	4.80
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	3.50 kW	3.60 kW
COP Tj = 12°C	7.10	7.05
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.80 kW	11.20 kW
COP Tj = Tbiv	2.40	1.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.10 kW	10.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.40
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	19 W	19 W
PTO	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	1.90 kW	3.50 kW
Annual energy consumption Qhe	7774 kWh	7592 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-6WHNPE RWM-6.0N1E - Heating Only

Configure model		
Model name 01. RAS-6WHNPE RWM-6.0N1E - 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	16.00 kW	16.00 kW
El input	3.50 kW	6.40 kW
СОР	4.57	2.50

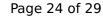
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825				
Low temperature Medium temperature				
η_{s}	161 %	134 %		
Prated	16.00 kW	14.00 kW		
SCOP	4.11	3.41		
Tbiv	-7 °C	-7 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7°C	13.80 kW	11.20 kW		
COP Tj = -7°C	2.40	1.94		
Cdh Tj = -7 °C	0.900	0.900		
Pdh Tj = +2°C	8.40 kW	6.82 kW		
COP Tj = +2°C	3.90	3.35		
Cdh Tj = +2 °C	0.900	0.900		
Pdh Tj = +7°C	5.40 kW	4.38 kW		
COP Tj = +7°C	6.16	4.80		
Cdh Tj = +7 °C	0.900	0.900		





Pdh Tj = 12°C	3.50 kW	3.60 kW
COP Tj = 12°C	7.10	7.05
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.80 kW	11.20 kW
COP Tj = Tbiv	2.40	1.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.10 kW	10.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.40
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	o w
PSB	19 W	19 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	3.50 kW
Annual energy consumption Qhe	7844 kWh	7662 kWh

Model: 02. RAS-6WHNPE RWM-6.0N1E - with cooling kit

Configure model		
Model name 02. RAS-6WHNPE RWM-6.0N1E - 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	

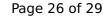
General Data	
Power supply 3x400V 50Hz	

Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	16.00 kW	16.00 kW
El input	3.50 kW	6.40 kW
СОР	4.57	2.50

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

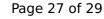
Cooling





EN 14511-2			
	+7°C/+12°C	+18°C/+23°C	
El input	3.25 kW	3.19 kW	
Cooling capacity	10.50	13.50	
EER	3.23	4.23	

EN 14825



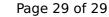


	+7°C/+12°C	+18°C/+23°C
Pdesignc	10.50 kW	13.50 kW
SEER	5.14	7.70
Pdc Tj = 35°C	10.50 kW	13.50 kW
EER Tj = 35°C	3.23	4.23
Pdc Tj = 30°C	7.80 kW	9.95 kW
EER Tj = 30°C	4.56	6.86
Cdc	0.900	0.900
Pdc Tj = 25°C	5.00 kW	7.20 kW
EER Tj = 25°C	5.77	9.54
Cdc	0.900	0.900
Pdc Tj = 20°C	3.20 kW	7.80 kW
EER Tj = 20°C	7.69	12.47
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	715 kWh	613 kWh



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor	60 dB(A)	60 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	163 %	135 %
Prated	16.00 kW	14.00 kW
SCOP	4.15	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.80 kW	11.20 kW
COP Tj = -7°C	2.40	1.94
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.40 kW	6.82 kW
COP Tj = +2°C	3.90	3.35
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.40 kW	4.38 kW
COP Tj = +7°C	6.16	4.80
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	3.50 kW	3.60 kW
COP Tj = 12°C	7.10	7.05
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.80 kW	11.20 kW
COP Tj = Tbiv	2.40	1.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.10 kW	10.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.40
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	o w
PSB	19 W	19 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	3.50 kW
Annual energy consumption Qhe	7774 kWh	7592 kWh