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Summary of	25. Yutaki S Combi Lite 2.0HP	Reg. No.	041-K002-25
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	25. Yutaki S Combi Lite 2.0HP		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.2 kg		

Model: RAS-2WHVN RWD-2.0NWLE-200S - Heating Only

Configure model	
Model name	RAS-2WHVN RWD-2.0NWLE-200S - 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	4.00 kW	3.75 kW
El input	0.85 kW	1.38 kW
COP	4.70	2.70

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	167 %	117 %
Prated	4.00 kW	4.00 kW
SCOP	4.25	3.00
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.55 kW	3.50 kW
COP Tj = -7°C	2.35	1.90
Pdh Tj = +2°C	2.15 kW	2.10 kW
COP Tj = +2°C	4.21	2.95
Pdh Tj = +7°C	1.70 kW	1.40 kW
COP Tj = +7°C	6.10	4.10
Pdh Tj = 12°C	2.15 kW	2.00 kW
COP Tj = 12°C	9.00	4.81

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Pdh Tj = Tbiv	3.55 kW	3.50 kW
COP Tj = Tbiv	2.35	1.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.50 kW	3.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.10	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °C	55 °C
Poff	3 W	3 W
PTO	0 W	0 W
PSB	3 W	3 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	0.90 kW
Annual energy consumption Qhe	1953 kWh	2727 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	125 %
COP	3.30
Heating up time	2:13 h:min
Standby power input	30.0 W
Reference hot water temperature	53.5 °C
Mixed water at 40°C	250 l

Model: RAS-2WHVN RWD-2.0NWLE-200S - with cooling kit

Configure model	
Model name	RAS-2WHVN RWD-2.0NWLE-200S - with cooling kit
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	4.00 kW	3.75 kW
El input	0.85 kW	1.38 kW
COP	4.70	2.70

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	168 %	117 %
Prated	4.00 kW	4.00 kW
SCOP	4.27	3.01
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.55 kW	3.50 kW
COP Tj = -7°C	2.35	1.90
Pdh Tj = +2°C	2.15 kW	2.10 kW
COP Tj = +2°C	4.21	2.95
Pdh Tj = +7°C	1.70 kW	1.40 kW
COP Tj = +7°C	6.10	4.10
Pdh Tj = 12°C	2.15 kW	2.00 kW
COP Tj = 12°C	9.00	4.81

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Pdh Tj = Tbiv	3.55 kW	3.50 kW
COP Tj = Tbiv	2.35	1.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.50 kW	3.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.10	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °C	55 °C
Poff	3 W	3 W
PTO	0 W	0 W
PSB	3 W	3 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	0.90 kW
Annual energy consumption Qhe	1942 kWh	2716 kWh

Domestic Hot Water (DHW)

Average Climate

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EN 16147	
Declared load profile	L
Efficiency η_{DHW}	125 %
COP	3.30
Heating up time	2:13 h:min
Standby power input	30.0 W
Reference hot water temperature	53.5 °C
Mixed water at 40°C	250 l