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Summary of	12. Yutaki S80 4.0HP (mono)	Reg. No.	041-K002-12
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	12. Yutaki S80 4.0HP (mono)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	3.3 kg		

Model: RAS-4WHVNPE RWH-4.0VNFE - Type 1

Configure model	
Model name	RAS-4WHVNPE RWH-4.0VNFE - Type 1
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 14511-4	
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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.00 kW	11.00 kW
El input	2.20 kW	3.31 kW
COP	5.00	3.32

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	57 dB(A)	57 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	187 %	142 %
Prated	11.00 kW	11.00 kW
SCOP	4.75	3.63
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	9.73 kW
COP Tj = -7°C	2.74	2.30
Pdh Tj = +2°C	5.84 kW	5.92 kW
COP Tj = +2°C	5.20	3.60
Pdh Tj = +7°C	3.76 kW	3.81 kW
COP Tj = +7°C	5.80	4.70
Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	6.40	6.00
Pdh Tj = Tbiv	9.60 kW	11.00 kW

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COP $T_j = T_{biv}$	2.74	2.20
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	10.50 kW	11.00 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.65	2.20
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	55 °C	55 °C
P _{off}	17 W	17 W
PTO	0 W	0 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	0.00 kW
Annual energy consumption Q_{he}	4732 kWh	6261 kWh

Model: RAS-4WHVNPE RWH-4.0VNFWE - Type 2

Configure model	
Model name	RAS-4WHVNPE RWH-4.0VNFWE - Type 2
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 14511-4	
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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.00 kW	11.00 kW
El input	2.20 kW	3.31 kW
COP	5.00	3.32

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	57 dB(A)	57 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	187 %	142 %
Prated	11.00 kW	11.00 kW
SCOP	4.75	3.63
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	9.73 kW
COP Tj = -7°C	2.74	2.30
Pdh Tj = +2°C	5.84 kW	5.92 kW
COP Tj = +2°C	5.20	3.60
Pdh Tj = +7°C	3.76 kW	3.81 kW
COP Tj = +7°C	5.80	4.70
Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	6.40	6.00
Pdh Tj = Tbiv	9.60 kW	11.00 kW

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COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.65	2.20
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	55 °C	55 °C
P _{off}	17 W	17 W
PTO	0 W	0 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	0.00 kW
Annual energy consumption Q_{he}	4732 kWh	6261 kWh