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Summary of	36. Yutaki S (N1) 8.0HP R410A (3ph)	Reg. No.	041-K002-57
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	36. Yutaki S (N1) 8.0HP R410A (3ph)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	5 kg		
Certification Date	08.02.2022		
Testing basis	Heat Pump Keymark Scheme Rules Rev 09		

Model: 01. RAS-8WHNPE RWM-8.0N1E - Heating Only

Configure model	
Model name	01. RAS-8WHNPE RWM-8.0N1E - 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	20.00 kW	20.00 kW
El input	4.65 kW	7.35 kW
COP	4.30	2.72

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	47 dB(A)	47 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	150 %	120 %
Prated	18.00 kW	16.00 kW
SCOP	3.83	3.08
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	15.60 kW	13.80 kW
COP Tj = -7°C	2.50	1.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	9.50 kW	8.40 kW
COP Tj = +2°C	3.85	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.10 kW	6.00 kW
COP Tj = +7°C	5.40	4.76
Cdh Tj = +7 °C	0.900	0.900

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Pdh Tj = 12°C	7.00 kW	6.80 kW
COP Tj = 12°C	4.65	5.10
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	15.60 kW	13.80 kW
COP Tj = Tbiv	2.50	1.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	12.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.40	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	36 W	36 W
PTO	0 W	0 W
PSB	36 W	36 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.00 kW	3.90 kW
Annual energy consumption Qhe	9513 kWh	10452 kWh

Model: 02. RAS-8WHNPE RWM-8.0N1E - with cooling kit

Configure model	
Model name	02. RAS-8WHNPE RWM-8.0N1E - 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	20.00 kW	20.00 kW
El input	4.65 kW	7.35 kW
COP	4.30	2.72

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	47 dB(A)	47 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	152 %	122 %
Prated	18.00 kW	16.00 kW
SCOP	3.83	3.08
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	15.60 kW	13.80 kW
COP Tj = -7°C	2.50	1.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	9.50 kW	8.40 kW
COP Tj = +2°C	3.85	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.10 kW	6.00 kW
COP Tj = +7°C	5.40	4.76
Cdh Tj = +7 °C	0.900	0.900

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Pdh Tj = 12°C	7.00 kW	6.80 kW
COP Tj = 12°C	4.65	5.10
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	15.60 kW	13.80 kW
COP Tj = Tbiv	2.50	1.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	12.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.40	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	36 W	36 W
PTO	0 W	0 W
PSB	36 W	36 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.00 kW	3.90 kW
Annual energy consumption Qhe	9382 kWh	10320 kWh

Cooling

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EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	4.48 kW	4.46 kW
Cooling capacity	14.00	17.00
EER	3.12	3.81

EN 14825

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	+7°C/+12°C	+18°C/+23°C
P _{designc}	14.00 kW	17.00 kW
SEER	4.29	5.40
P _{dc} T _j = 35°C	14.00 kW	17.00 kW
EER T _j = 35°C	3.12	3.81
P _{dc} T _j = 30°C	10.32 kW	12.53 kW
EER T _j = 30°C	3.92	5.60
C _{dc}	0.900	0.900
P _{dc} T _j = 25°C	6.50 kW	8.20 kW
EER T _j = 25°C	5.30	6.50
C _{dc}	0.900	0.900
P _{dc} T _j = 20°C	8.00 kW	8.50 kW
EER T _j = 20°C	5.80	6.60
C _{dc}	0.900	0.900
P _{off}	36 W	36 W
PTO	0 W	0 W
PSB	36 W	36 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	1142 kWh	1102 kWh