

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	09. Yutaki S & S Combi 6.0HP (tri)	Reg. No.	041-K002-09
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 Energy & Communications Division		
Name of testing laboratory	CEIS		
Subtype title	09. Yutaki S & S Combi 6.0HP (tri)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	3.4 kg		

Model: RAS-6WHNPE RWM-6.0NE - Heating Only

General Data

Power supply	3x400V 50Hz
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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	16.00 kW	16.00 kW
El input	3.50 kW	6.40 kW
COP	4.57	2.50
Indoor water flow rate	2.74 m ³ /h	1.71 m ³ /h

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	152 %	125 %
Prated	16.00 kW	14.00 kW
SCOP	3.88	3.20
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	1.60
Pdh Tj = +2°C	8.40 kW	6.82 kW
COP Tj = +2°C	3.90	3.35
Pdh Tj = +7°C	5.40 kW	4.38 kW
COP Tj = +7°C	5.00	4.35
Pdh Tj = 12°C	3.50 kW	3.60 kW
COP Tj = 12°C	6.00	5.50
Pdh Tj = Tbiv	13.80 kW	11.20 kW

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COP Tj = Tbiv	2.40	1.60
Pdh Tj = TOL	14.10 kW	10.50 kW
COP Tj = TOL	2.30	1.40
Cdh	0.90	0.90
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	3.10 kW
Annual energy consumption Qhe	8309 kWh	8802 kWh

Model: RAS-6WHNPE RWD-6.0NWE-200S - Heating Only

General Data

Power supply	3x400V 50Hz
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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
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Pdh Tj = +7°C	5.40 kW	4.38 kW
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Cdh	0.90	0.90
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Poff	19 W	19 W
PTO	0 W	0 W
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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.90 kW	3.10 kW
Annual energy consumption Qhe	8309 kWh	8802 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	130 %
COP	3.25
Reference hot water temperature	54.0 °C
Mixed water at 40°C	263 l
Heating up time	1:10 h:min
Standby power input	49.0 W

Model: RAS-6WHNPE RWD-6.0NWE-260S - Heating Only

General Data

Power supply	3x400V 50Hz
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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	16.00 kW	16.00 kW
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COP $T_j = T_{biv}$	2.40	1.60
P _{dh} $T_j = TOL$	14.10 kW	10.50 kW
COP $T_j = TOL$	2.30	1.40
C _{dh}	0.90	0.90
WTOL	55 °C	55 °C
P _{off}	19 W	19 W
P _{TO}	0 W	0 W
P _{SB}	19 W	19 W
P _{CK}	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.90 kW	3.10 kW
Annual energy consumption Q _{he}	8309 kWh	8802 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	134 %
COP	3.35
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l
Heating up time	1:25 h:min
Standby power input	51.0 W

Model: RAS-6WHNPE RWD-6.0NWE-200S-K - UK- Heating Only

General Data

Power supply	3x400V 50Hz
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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	16.00 kW	16.00 kW
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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	3.10 kW
Annual energy consumption Qhe	8309 kWh	8802 kWh

Domestic Hot Water (DHW)

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EN 16147	
Declared load profile	L
Efficiency η_{DHW}	130 %
COP	3.25
Reference hot water temperature	54.0 °C
Mixed water at 40°C	263 l
Heating up time	1:10 h:min
Standby power input	49.0 W

Model: RAS-6WHNPE RWD-6.0NWE-260S-K - UK- Heating Only

General Data

Power supply	3x400V 50Hz
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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	16.00 kW	16.00 kW
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COP	4.57	2.50
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Supplementary Heater: PSUP	1.90 kW	3.10 kW
Annual energy consumption Qhe	8309 kWh	8802 kWh

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Declared load profile	XL
Efficiency η_{DHW}	134 %
COP	3.35
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l
Heating up time	1:25 h:min
Standby power input	51.0 W

Model: RAS-6WHNPE RWD-6.0NWSE-260S - Solar - Heating Only

General Data

Power supply	3x400V 50Hz
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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	16.00 kW	16.00 kW
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C _{dh}	0.90	0.90
WTOL	55 °C	55 °C
P _{off}	19 W	19 W
P _{TO}	0 W	0 W
P _{SB}	19 W	19 W
P _{CK}	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: P _{SUP}	1.90 kW	3.10 kW
Annual energy consumption Q _{he}	8309 kWh	8802 kWh

Domestic Hot Water (DHW)

Average Climate

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Declared load profile	XL
Efficiency η_{DHW}	134 %
COP	3.35
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l
Heating up time	1:25 h:min
Standby power input	51.0 W

Model: RAS-6WHNPE RWM-6.0NE - with cooling kit

General Data

Power supply	3x400V 50Hz
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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
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COP $T_j = T_{biv}$	2.40	1.60
P _{dh} $T_j = TOL$	14.10 kW	10.50 kW
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C _{dh}	0.90	0.90
WTOL	55 °C	55 °C
P _{off}	19 W	19 W
P _{TO}	0 W	0 W
P _{SB}	19 W	19 W
P _{CK}	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: P _{SUP}	1.90 kW	3.10 kW
Annual energy consumption Q _{he}	8239 kWh	8732 kWh

Model: RAS-6WHNPE RWD-6.0NWE-200S - with cooling kit

General Data

Power supply	3x400V 50Hz
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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	16.00 kW	16.00 kW
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Supplementary Heater: Type of energy input	electricity	electricity
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Annual energy consumption Q _{he}	8239 kWh	8732 kWh

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Efficiency η_{DHW}	130 %
COP	3.25
Reference hot water temperature	54.0 °C
Mixed water at 40°C	263 l
Heating up time	1:10 h:min
Standby power input	49.0 W

Model: RAS-6WHNPE RWD-6.0NWE-260S - with cooling kit

General Data

Power supply	3x400V 50Hz
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Heating

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EN 14511-2

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Standby power input	51.0 W

Model: RAS-6WHNPE RWD-6.0NWSE-260S - Solar - with cooling kit

General Data

Power supply	3x400V 50Hz
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Pdh Tj = Tbiv	13.80 kW	11.20 kW

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COP Tj = Tbiv	2.40	1.60
Pdh Tj = TOL	14.10 kW	10.50 kW
COP Tj = TOL	2.30	1.40
Cdh	0.90	0.90
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	3.10 kW
Annual energy consumption Qhe	8239 kWh	8732 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	134 %
COP	3.35
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l
Heating up time	1:25 h:min
Standby power input	51.0 W