

Page 1 of 39

This information was generated by the HP KEYMARK database on 7 Jul 2022

Login

Summary of	08. Yutaki S & S Combi 5.0HP (tri)	Reg. No.	041-K002-08
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	08. Yutaki S & S Combi 5.0HP (tri)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	3.4 kg		



Model: RAS-5WHNPE RWM-5.0NE - Heating Only

Configure model		
Model name RAS-5WHNPE RWM-5.0NE - 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 14511-4		
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	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
СОР	4.71	2.80

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	174 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.43	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Pdh Tj = +7°C	4.70 kW	4.01 kW
COP Tj = +7°C	5.70	4.60
Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	6.00	5.50
Pdh Tj = Tbiv	12.00 kW	10.25 kW





	Tacea by the in italia	Takk database on 7 jul 2022
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
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	2.60 kW
Annual energy consumption Qhe	6335 kWh	7088 kWh



Model: RAS-5WHNPE RWD-5.0NWE-200S -**Heating Only**

Configure model		
Model name RAS-5WHNPE RWD-5.0NWE-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 3x400V 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	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
СОР	4.71	2.80



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	174 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.43	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7 °C	2.55	1.70
Pdh Tj = $+2$ °C	7.30 kW	6.24 kW
$COP Tj = +2^{\circ}C$	4.70	3.60
Pdh Tj = $+7^{\circ}$ C	4.70 kW	4.01 kW
$COPTj = +7^{\circ}C$	5.70	4.60
Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	6.00	5.50





Pdh Tj = Tbiv 12.00 kW 10.25 kW COP Tj = Tbiv 2.55 1.70 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 12.10 kW 9.00 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.50 1.60 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 55 °C 55 °C Poff 19 W 19 W PTO 0 W 0 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.90 kW 2.60 kW Annual energy consumption Qhe 6335 kWh 7088 kWh		<u> </u>	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	2.55	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
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 2.60 kW	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
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 2.60 kW	Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
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 2.60 kW	WTOL	55 °C	55 °C
PSB 19 W 19 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.90 kW 2.60 kW	Poff	19 W	19 W
PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.90 kW 2.60 kW	РТО	o w	o w
Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.90 kW 2.60 kW	PSB	19 W	19 W
Supplementary Heater: PSUP 1.90 kW 2.60 kW	PCK	o w	o w
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 6335 kWh 7088 kWh	Supplementary Heater: PSUP	1.90 kW	2.60 kW
	Annual energy consumption Qhe	6335 kWh	7088 kWh

Domestic Hot Water (DHW)



$$\operatorname{Page}$ 8 of 39 This information was generated by the HP KEYMARK database on 7 Jul 2022

EN 16147		
Declared load profile	L	
Efficiency ηDHW	130 %	
СОР	3.25	
Heating up time	1:10 h:min	
Standby power input	49.0 W	
Reference hot water temperature	54.0 °C	
Mixed water at 40°C	263 I	

Model: RAS-5WHNPE RWD-5.0NWE-260S - Heating Only

Configure model		
Model name	RAS-5WHNPE RWD-5.0NWE-260S - 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

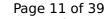
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
СОР	4.71	2.80



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	174 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.43	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Pdh Tj = $+2$ °C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Pdh Tj = +7°C	4.70 kW	4.01 kW
$COP Tj = +7^{\circ}C$	5.70	4.60
Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	6.00	5.50





Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
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	2.60 kW
Annual energy consumption Qhe	6335 kWh	7088 kWh

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	134 %	
СОР	3.35	
Heating up time	1:25 h:min	
Standby power input	51.0 W	
Reference hot water temperature	54.0 °C	
Mixed water at 40°C	350 I	



Model: RAS-5WHNPE RWD-5.0NWE-200S-K - UK-Heating Only

Configure model		
Model name RAS-5WHNPE RWD-5.0NWE-200S-K - UK- 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 14511-4		
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	

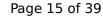
EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
СОР	4.71	2.80



This information was generated by the HP KEYMARK database on 7 Jul 2022

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	174 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.43	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Pdh Tj = +7°C	4.70 kW	4.01 kW
COP Tj = +7°C	5.70	4.60
Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	6.00	5.50





Pdh Tj = Tbiv 12.00 kW 10.25 kW COP Tj = Tbiv 2.55 1.70 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 12.10 kW 9.00 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.50 1.60 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 55 °C 55 °C Poff 19 W 19 W PTO 0 W 0 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.90 kW 2.60 kW Annual energy consumption Qhe 6335 kWh 7088 kWh		<u> </u>	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	2.55	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
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 2.60 kW	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
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 2.60 kW	Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
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 2.60 kW	WTOL	55 °C	55 °C
PSB 19 W 19 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.90 kW 2.60 kW	Poff	19 W	19 W
PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.90 kW 2.60 kW	РТО	o w	o w
Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.90 kW 2.60 kW	PSB	19 W	19 W
Supplementary Heater: PSUP 1.90 kW 2.60 kW	PCK	o w	o w
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 6335 kWh 7088 kWh	Supplementary Heater: PSUP	1.90 kW	2.60 kW
	Annual energy consumption Qhe	6335 kWh	7088 kWh

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	130 %	
СОР	3.25	
Heating up time	1:10 h:min	
Standby power input	49.0 W	
Reference hot water temperature	54.0 °C	
Mixed water at 40°C	263 I	

Model: RAS-5WHNPE RWD-5.0NWE-260S-K - UK-Heating Only

Configure model		
Model name	RAS-5WHNPE RWD-5.0NWE-260S-K - UK- 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

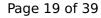
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2			
Low temperature Medium temperature			
Heat output	14.00 kW	14.00 kW	
El input	2.97 kW	5.00 kW	
СОР	4.71	2.80	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	174 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.43	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Pdh Tj = $+7$ °C	4.70 kW	4.01 kW
$COP Tj = +7^{\circ}C$	5.70	4.60
Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	6.00	5.50





Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
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	2.60 kW
Annual energy consumption Qhe	6335 kWh	7088 kWh

Domestic Hot Water (DHW)



EN 16147	
Declared load profile	XL
Efficiency ηDHW	134 %
СОР	3.35
Heating up time	1:25 h:min
Standby power input	51.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 I



Model: RAS-5WHNPE RWD-5.0NWSE-260S - Solar - Heating Only

Configure model		
Model name	RAS-5WHNPE RWD-5.0NWSE-260S - Solar - 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 14511-4		
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	

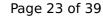
EN 14511-2			
Low temperature Medium temperature			
Heat output	14.00 kW	14.00 kW	
El input	2.97 kW	5.00 kW	
СОР	4.71	2.80	



EN 12102-1

EN 12102-1				
Low temperature Medium temperature				
Sound power level indoor	39 dB(A)	39 dB(A)		
Sound power level outdoor	65 dB(A)	65 dB(A)		

EN 14825		
	Low temperature	Medium temperature
η_{s}	174 %	133 %
Prated	14.00 kW	12.00 kW
SCOP	4.43	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Pdh Tj = +2°C	7.30 kW	6.24 kW
COP Tj = +2°C	4.70	3.60
Pdh Tj = $+7^{\circ}$ C	4.70 kW	4.01 kW
COP Tj = +7°C	5.70	4.60
Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	6.00	5.50





Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °C	55 °C
Poff	19 W	19 W
РТО	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	2.60 kW
Annual energy consumption Qhe	6335 kWh	7088 kWh

Domestic Hot Water (DHW)



EN 16147	
Declared load profile	XL
Efficiency ηDHW	134 %
СОР	3.35
Heating up time	1:25 h:min
Standby power input	51.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 I



Model: RAS-5WHNPE RWM-5.0NE - with cooling

Configure model			
Model name RAS-5WHNPE RWM-5.0NE - with cooling kit			
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

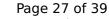
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2			
Low temperature Medium temperature			
Heat output	14.00 kW	14.00 kW	
El input	2.97 kW	5.00 kW	
СОР	4.71	2.80	



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	176 %	134 %
Prated	14.00 kW	12.00 kW
SCOP	4.48	3.43
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Pdh Tj = +2°C	7.30 kW	6.24 kW
$COP Tj = +2^{\circ}C$	4.70	3.60
Pdh Tj = +7°C	4.70 kW	4.01 kW
$COPTj = +7^{\circ}C$	5.70	4.60
Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	6.00	5.50





		-
Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
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	2.60 kW
Annual energy consumption Qhe	6265 kWh	7018 kWh

Model: RAS-5WHNPE RWD-5.0NWE-200S - with cooling kit

Configure model		
Model name RAS-5WHNPE RWD-5.0NWE-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 3x400V 50Hz		

Heating

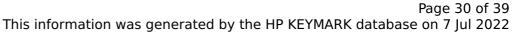
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2			
Low temperature Medium temperature			
Heat output	14.00 kW	14.00 kW	
El input	2.97 kW	5.00 kW	
СОР	4.71	2.80	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

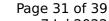
EN 14825		
	Low temperature	Medium temperature
η_{s}	176 %	134 %
Prated	14.00 kW	12.00 kW
SCOP	4.48	3.43
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7°C	2.55	1.70
Pdh Tj = +2°C	7.30 kW	6.24 kW
$COP Tj = +2^{\circ}C$	4.70	3.60
Pdh Tj = +7°C	4.70 kW	4.01 kW
$COPTj = +7^{\circ}C$	5.70	4.60
Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	6.00	5.50





	<u> </u>	· · · · · · · · · · · · · · · · · · ·
Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °C	55 °C
Poff	19 W	19 W
РТО	o 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	2.60 kW
Annual energy consumption Qhe	6265 kWh	7018 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	130 %
СОР	3.25
Heating up time	1:10 h:min
Standby power input	49.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	263 I



Model: RAS-5WHNPE RWD-5.0NWE-260S - with cooling kit

Configure model	
Model name	RAS-5WHNPE RWD-5.0NWE-260S - 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 3x400V 50Hz		

Heating

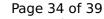
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	2.97 kW	5.00 kW
СОР	4.71	2.80



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	176 %	134 %
Prated	14.00 kW	12.00 kW
SCOP	4.48	3.43
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	10.25 kW
COP Tj = -7 °C	2.55	1.70
Pdh Tj = +2°C	7.30 kW	6.24 kW
$COP Tj = +2^{\circ}C$	4.70	3.60
Pdh Tj = +7°C	4.70 kW	4.01 kW
$COP Tj = +7^{\circ}C$	5.70	4.60
Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	6.00	5.50





Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °C	55 °C
Poff	19 W	19 W
РТО	o w	0 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	2.60 kW
Annual energy consumption Qhe	6265 kWh	7018 kWh

Domestic Hot Water (DHW)



EN 16147	
Declared load profile	XL
Efficiency ηDHW	134 %
СОР	3.35
Heating up time	1:25 h:min
Standby power input	51.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 I



Model: RAS-5WHNPE RWD-5.0NWSE-260S - Solar - with cooling kit

Configure model	
Model name	RAS-5WHNPE RWD-5.0NWSE-260S - Solar - 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	3x400V 50Hz

Heating

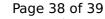
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	14.00 kW	14.00 kW	
El input	2.97 kW	5.00 kW	
СОР	4.71	2.80	



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

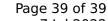
EN 14825		
	Low temperature	Medium temperature
η_{S}	176 %	134 %
Prated	14.00 kW	12.00 kW
SCOP	4.48	3.43
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7° C	12.00 kW	10.25 kW
COP Tj = -7 °C	2.55	1.70
Pdh Tj = $+2$ °C	7.30 kW	6.24 kW
$COP Tj = +2^{\circ}C$	4.70	3.60
Pdh Tj = $+7^{\circ}$ C	4.70 kW	4.01 kW
$COPTj = +7^{\circ}C$	5.70	4.60
Pdh Tj = 12°C	3.50 kW	3.50 kW
COP Tj = 12°C	6.00	5.50





Pdh Tj = Tbiv	12.00 kW	10.25 kW
COP Tj = Tbiv	2.55	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.10 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °C	55 °C
Poff	19 W	19 W
РТО	o 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	2.60 kW
Annual energy consumption Qhe	6265 kWh	7018 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	134 %	
СОР	3.35	
Heating up time	1:25 h:min	
Standby power input	51.0 W	
Reference hot water temperature	54.0 °C	
Mixed water at 40°C	350 I	