

Page 1 of 39

#### This information was generated by the HP KEYMARK database on 18 Mar 2022

#### Login

Summary of	07. Yutaki S & S Combi 4.0HP (tri)	Reg. No.	041-K002-07
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	07. Yutaki S & S Combi 4.0HP (tri)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R1234yf		
Mass of Refrigerant	3.4 kg		
Testing basis	HP Keymark Scheme Rules Rev 07		

## Model: RAS-4WHNPE RWM-4.0NE - Heating Only (tri)

Configure model		
Model name RAS-4WHNPE RWM-4.0NE - Heating Only (tri)		
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	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
СОР	5.00	3.00

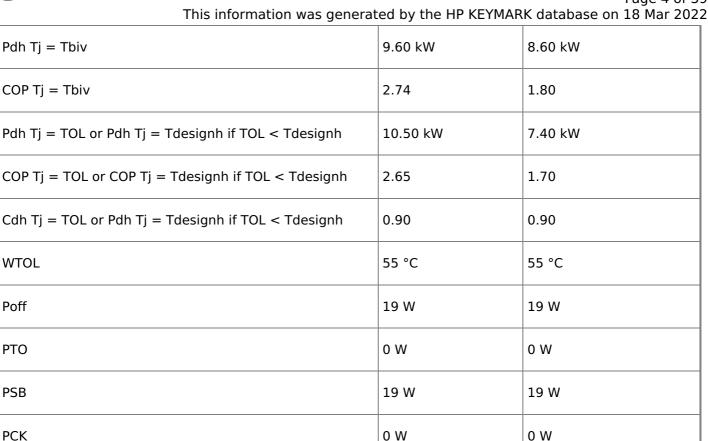


### Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	186 %	135 %
Prated	11.00 kW	10.00 kW
SCOP	4.72	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	8.60 kW
COP Tj = $-7^{\circ}$ C	2.74	1.80
Pdh Tj = $+2$ °C	5.84 kW	5.23 kW
$COPTj = +2^{\circ}C$	5.20	3.60
Pdh Tj = $+7^{\circ}$ C	3.76 kW	3.52 kW
$COPTj = +7^{\circ}C$	5.80	4.80
Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	6.40	5.80





Electricity

0.50 kW

4736 kWh

Electricity

2.30 kW

5837 kWh

CEN heat pump

Supplementary Heater: Type of energy input

Supplementary Heater: PSUP

Annual energy consumption Qhe



# Model: RAS-4WHNPE RWD-4.0NWE-200S - Heating Only (tri)

Configure model		
Model name	RAS-4WHNPE RWD-4.0NWE-200S - Heating Only (tri)	
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	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
СОР	5.00	3.00



### Average Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor	64 dB(A)	64 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	186 %	135 %
Prated	11.00 kW	10.00 kW
SCOP	4.72	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	8.60 kW
COP Tj = $-7^{\circ}$ C	2.74	1.80
Pdh Tj = $+2$ °C	5.84 kW	5.23 kW
$COPTj = +2^{\circ}C$	5.20	3.60
Pdh Tj = $+7^{\circ}$ C	3.76 kW	3.52 kW
$COPTj = +7^{\circ}C$	5.80	4.80
Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	6.40	5.80





Pdh Tj = Tbiv	9.60 kW	8.60 kW
COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
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	0.50 kW	2.30 kW
Annual energy consumption Qhe	4736 kWh	5837 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	130 %
СОР	3.25
Heating up time	1:23 h:min
Reference hot water temperature	54.0 °C
Mixed water at 40°C	263
Standby power input	49.0 W



# Model: RAS-4WHNPE RWD-4.0NWE-260S - Heating Only (tri)

Configure model	
Model name	RAS-4WHNPE RWD-4.0NWE-260S - Heating Only (tri)
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	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
СОР	5.00	3.00



### Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

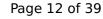
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	186 %	135 %
Prated	11.00 kW	10.00 kW
SCOP	4.72	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	8.60 kW
COP Tj = $-7^{\circ}$ C	2.74	1.80
Pdh Tj = $+2$ °C	5.84 kW	5.23 kW
$COPTj = +2^{\circ}C$	5.20	3.60
Pdh Tj = $+7^{\circ}$ C	3.76 kW	3.52 kW
$COPTj = +7^{\circ}C$	5.80	4.80
Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	6.40	5.80





Pdh Tj = Tbiv	9.60 kW	8.60 kW
COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
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	0.50 kW	2.30 kW
Annual energy consumption Qhe	4736 kWh	5837 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	XL
Efficiency ηDHW	134 %
СОР	3.35
Heating up time	1:44 h:min
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l
Standby power input	51.0 W



### Model: RAS-4WHNPE RWD-4.0NWE-200S-K - UK-Heating Only (tri)

Configure model	
Model name	RAS-4WHNPE RWD-4.0NWE-200S-K - UK- Heating Only (tri)
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	

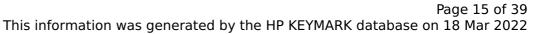
EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
СОР	5.00	3.00



### Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

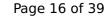
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	186 %	135 %
Prated	11.00 kW	10.00 kW
SCOP	4.72	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	8.60 kW
COP Tj = $-7^{\circ}$ C	2.74	1.80
Pdh Tj = $+2$ °C	5.84 kW	5.23 kW
$COPTj = +2^{\circ}C$	5.20	3.60
Pdh Tj = $+7^{\circ}$ C	3.76 kW	3.52 kW
$COPTj = +7^{\circ}C$	5.80	4.80
Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	6.40	5.80





Pdh Tj = Tbiv	9.60 kW	8.60 kW
COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
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	0.50 kW	2.30 kW
Annual energy consumption Qhe	4736 kWh	5837 kWh

### Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	130 %	
СОР	3.25	
Heating up time	1:23 h:min	
Reference hot water temperature	54.0 °C	
Mixed water at 40°C	263	
Standby power input	49.0 W	



### Model: RAS-4WHNPE RWD-4.0NWE-260S-K - UK-Heating Only (tri)

Configure model		
Model name	RAS-4WHNPE RWD-4.0NWE-260S-K - UK- Heating Only (tri)	
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	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
СОР	5.00	3.00



### Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

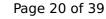
EN 14825	
Low temperature	Medium temperature
186 %	135 %
11.00 kW	10.00 kW
4.72	3.45
-7 °C	-7 °C
-10 °C	-10 °C
9.60 kW	8.60 kW
2.74	1.80
5.84 kW	5.23 kW
5.20	3.60
3.76 kW	3.52 kW
5.80	4.80
3.70 kW	3.60 kW
6.40	5.80
	Low temperature  186 %  11.00 kW  4.72  -7 °C  -10 °C  9.60 kW  2.74  5.84 kW  5.20  3.76 kW  5.80  3.70 kW





Pdh Tj = Tbiv	9.60 kW	8.60 kW
COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
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	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	2.30 kW
Annual energy consumption Qhe	4736 kWh	5837 kWh

### Domestic Hot Water (DHW)





EN 16147	
Declared load profile	XL
Efficiency ηDHW	134 %
СОР	3.35
Heating up time	1:44 h:min
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l
Standby power input	51.0 W



## Model: RAS-4WHNPE RWD-4.0NWSE-260S - Solar - Heating Only (tri)

Configure model		
Model name	RAS-4WHNPE RWD-4.0NWSE-260S - Solar - Heating Only (tri)	
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	

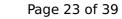
EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
СОР	5.00	3.00



### Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825	
Low temperature	Medium temperature
186 %	135 %
11.00 kW	10.00 kW
4.72	3.45
-7 °C	-7 °C
-10 °C	-10 °C
9.60 kW	8.60 kW
2.74	1.80
5.84 kW	5.23 kW
5.20	3.60
3.76 kW	3.52 kW
5.80	4.80
3.70 kW	3.60 kW
6.40	5.80
	Low temperature  186 %  11.00 kW  4.72  -7 °C  -10 °C  9.60 kW  2.74  5.84 kW  5.20  3.76 kW  5.80  3.70 kW





Pdh Tj = Tbiv	9.60 kW	8.60 kW
COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
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	0.50 kW	2.30 kW
Annual energy consumption Qhe	4736 kWh	5837 kWh

### Domestic Hot Water (DHW)



## $$\operatorname{\textit{Page}}\xspace$ 24 of 39 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
Declared load profile	XL
Efficiency ηDHW	134 %
СОР	3.35
Heating up time	1:44 h:min
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l
Standby power input	51.0 W

## Model: RAS-4WHNPE RWM-4.0NE - with cooling kit (tri)

Configure model		
Model name	RAS-4WHNPE RWM-4.0NE - with cooling kit (tri)	
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	11.00 kW	11.00 kW	
El input	2.20 kW	3.67 kW	
СОР	5.00	3.00	

### Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	189 %	137 %
Prated	11.00 kW	10.00 kW
SCOP	4.80	3.50
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = $-7^{\circ}$ C	9.60 kW	8.60 kW
COP Tj = $-7^{\circ}$ C	2.74	1.80
Pdh Tj = $+2$ °C	5.84 kW	5.23 kW
$COP Tj = +2^{\circ}C$	5.20	3.60
Pdh Tj = $+7^{\circ}$ C	3.76 kW	3.52 kW
$COPTj = +7^{\circ}C$	5.80	4.80
Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	6.40	5.80



## $$\operatorname{\textit{Page}}\xspace$ 27 of 39 This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = Tbiv	9.60 kW	8.60 kW
COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
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	0.50 kW	2.30 kW
Annual energy consumption Qhe	4666 kWh	5767 kWh

## Model: RAS-4WHNPE RWD-4.0NWE-200S - with cooling kit (tri)

Configure model		
Model name	RAS-4WHNPE RWD-4.0NWE-200S - with cooling kit (tri)	
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

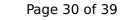
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2			
Low temperature Medium temperature			
Heat output	11.00 kW	11.00 kW	
El input	2.20 kW	3.67 kW	
СОР	5.00	3.00	

### Average Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	39 dB(A)	39 dB(A)		
Sound power level outdoor 64 dB(A) 64 dB(A)				

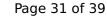
EN 14825		
Low temperature	Medium temperature	
189 %	137 %	
11.00 kW	10.00 kW	
4.80	3.50	
-7 °C	-7 °C	
-10 °C	-10 °C	
9.60 kW	8.60 kW	
2.74	1.80	
5.84 kW	5.23 kW	
5.20	3.60	
3.76 kW	3.52 kW	
5.80	4.80	
3.70 kW	3.60 kW	
6.40	5.80	
	Low temperature  189 %  11.00 kW  4.80  -7 °C  -10 °C  9.60 kW  2.74  5.84 kW  5.20  3.76 kW  5.80  3.70 kW	





Pdh Tj = Tbiv	9.60 kW	8.60 kW
COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
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	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	2.30 kW
Annual energy consumption Qhe	4666 kWh	5767 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile		
Deciared load profile	L	
Efficiency ηDHW	130 %	
СОР	3.25	
Heating up time	1:23 h:min	
Reference hot water temperature	54.0 °C	
Mixed water at 40°C	263 I	
Standby power input	49.0 W	

## Model: RAS-4WHNPE RWD-4.0NWE-260S - with cooling kit (tri)

Configure model		
Model name	RAS-4WHNPE RWD-4.0NWE-260S - with cooling kit (tri)	
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	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
СОР	5.00	3.00



### Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

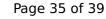
EN 14825		
Low temperature	Medium temperature	
189 %	137 %	
11.00 kW	10.00 kW	
4.80	3.50	
-7 °C	-7 °C	
-10 °C	-10 °C	
9.60 kW	8.60 kW	
2.74	1.80	
5.84 kW	5.23 kW	
5.20	3.60	
3.76 kW	3.52 kW	
5.80	4.80	
3.70 kW	3.60 kW	
6.40	5.80	
	Low temperature  189 %  11.00 kW  4.80  -7 °C  -10 °C  9.60 kW  2.74  5.84 kW  5.20  3.76 kW  5.80  3.70 kW	





Pdh Tj = Tbiv	9.60 kW	8.60 kW
COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
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	0.50 kW	2.30 kW
Annual energy consumption Qhe	4666 kWh	5767 kWh

### Domestic Hot Water (DHW)





EN 16147	
Declared load profile	XL
Efficiency ηDHW	134 %
СОР	3.35
Heating up time	1:44 h:min
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l
Standby power input	51.0 W



## Model: RAS-4WHNPE RWD-4.0NWSE-260S - Solar - with cooling kit (tri)

Configure model		
Model name	RAS-4WHNPE RWD-4.0NWSE-260S - Solar - with cooling kit (tri)	
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

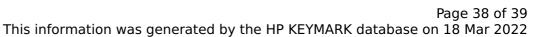
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2				
	Low temperature	Medium temperature		
Heat output	11.00 kW	11.00 kW		
El input	2.20 kW	4.01 kW		
СОР	5.00	2.74		

### Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor	64 dB(A)	64 dB(A)	

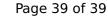
EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	189 %	137 %	
Prated	11.00 kW	10.00 kW	
SCOP	4.80	3.50	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = $-7^{\circ}$ C	9.60 kW	8.60 kW	
COP Tj = $-7^{\circ}$ C	2.74	1.80	
Pdh Tj = $+2$ °C	5.84 kW	5.23 kW	
$COP Tj = +2^{\circ}C$	5.20	3.60	
Pdh Tj = $+7^{\circ}$ C	3.76 kW	3.52 kW	
$COPTj = +7^{\circ}C$	5.80	4.80	
Pdh Tj = 12°C	3.70 kW	3.60 kW	
COP Tj = 12°C	6.40	5.80	





Pdh Tj = Tbiv	9.60 kW	8.60 kW
COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70
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	0.50 kW	2.30 kW
Annual energy consumption Qhe	4666 kWh	5767 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	134 %	
СОР	3.35	
Heating up time	1:44 h:min	
Reference hot water temperature	54.0 °C	
Mixed water at 40°C	350 l	
Standby power input	51.0 W	