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Summary of	28. Yutaki S (R1) & S Combi (RW1) 220L 2.5HP R32	Reg. No.	041-K002-49
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	28. Yutaki S (R1) & S Combi (RW1) 220L 2.5HP R32		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.3 kg		
Certification Date	08.02.2022		
Testing basis	Heat Pump Keymark Scheme Rules Rev 09		

# Model: 04. RAS-2.5WHVRP1 RWD-2.5RW1E-220S - with cooling kit

Configure model	
Model name	04. RAS-2.5WHVRP1 RWD-2.5RW1E-220S - with cooling kit
Application	Heating + DHW + low 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	1x230V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.25 kW	2.08 kW
COP	4.80	2.85

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

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	180 %	128 %
Prated	6.00 kW	5.00 kW
SCOP	4.57	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.10 kW	4.42 kW
COP Tj = -7°C	2.70	1.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.10 kW	2.69 kW
COP Tj = +2°C	4.60	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	6.20	4.95
Cdh Tj = +7 °C	0.900	0.900

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Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	8.35	6.78
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.10 kW	4.42 kW
COP Tj = Tbiv	2.70	1.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.30 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.70 kW	1.10 kW
Annual energy consumption Qhe	2608 kWh	3143 kWh

## Cooling

### EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	1.47 kW	1.24 kW
Cooling capacity	5.30	6.30
EER	3.60	5.10

### EN 14825

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

	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	5.30 kW	6.30 kW
SEER	5.48	8.50
P <sub>dc</sub> T <sub>j</sub> = 35°C	5.30 kW	6.30 kW
EER T <sub>j</sub> = 35°C	3.60	5.30
P <sub>dc</sub> T <sub>j</sub> = 30°C	3.91 kW	4.64 kW
EER T <sub>j</sub> = 30°C	4.50	7.00
C <sub>dc</sub>	0.900	0.900
P <sub>dc</sub> T <sub>j</sub> = 25°C	2.51 kW	2.98 kW
EER T <sub>j</sub> = 25°C	6.30	9.90
C <sub>dc</sub>	0.900	0.900
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.88 kW	2.65 kW
EER T <sub>j</sub> = 20°C	8.20	12.61
C <sub>dc</sub>	0.900	0.900
P <sub>off</sub>	12 W	12 W
P <sub>TO</sub>	0 W	0 W
P <sub>SB</sub>	12 W	12 W
P <sub>CK</sub>	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	581 kWh	445 kWh

## Domestic Hot Water (DHW)

### Average Climate

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

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	130 %
COP	3.20
Heating up time	1:55 h:min
Standby power input	30.0 W
Reference hot water temperature	52.6 °C
Mixed water at 40°C	288 l

# Model: 03. RAS-2.5WHVRP1 RWD-2.5RW1E-220S - Heating Only

Configure model	
Model name	03. RAS-2.5WHVRP1 RWD-2.5RW1E-220S - 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	1x230V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.25 kW	2.08 kW
COP	4.80	2.85

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



### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	177 %	127 %
Prated	6.00 kW	5.00 kW
SCOP	4.57	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.10 kW	4.42 kW
COP Tj = -7°C	2.70	1.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.10 kW	2.69 kW
COP Tj = +2°C	4.60	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	6.20	4.95
Cdh Tj = +7 °C	0.900	0.900

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

Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	8.35	6.78
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.10 kW	4.42 kW
COP Tj = Tbiv	2.70	1.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.30 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.70 kW	1.10 kW
Annual energy consumption Qhe	2652 kWh	3186 kWh

## Cooling

### EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	5.30 kW	6.30 kW
Cooling capacity	1.47	1.24
EER	3.60	5.10

### EN 14825

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

	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	5.30 kW	6.30 kW
SEER	5.48	8.46
P <sub>dc</sub> T <sub>j</sub> = 35°C	5.30 kW	6.30 kW
EER T <sub>j</sub> = 35°C	3.60	5.10
P <sub>dc</sub> T <sub>j</sub> = 30°C	3.91 kW	4.64 kW
EER T <sub>j</sub> = 30°C	4.50	7.00
C <sub>dc</sub>	0.900	0.900
P <sub>dc</sub> T <sub>j</sub> = 25°C	2.51 kW	2.98 kW
EER T <sub>j</sub> = 25°C	6.30	9.90
C <sub>dc</sub>	0.900	0.900
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.88 kW	2.65 kW
EER T <sub>j</sub> = 20°C	8.20	12.61
C <sub>dc</sub>	0.900	0.900
P <sub>off</sub>	12 W	12 W
PTO	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	581 kWh	445 kWh

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	130 %
COP	3.20
Heating up time	1:55 h:min
Standby power input	30.0 W
Reference hot water temperature	52.6 °C
Mixed water at 40°C	288 l

# Model: 05. RAS-2.5WHVRP1 RWD-2.5RW1E-220S-K - UK Version - Heating Only

Configure model	
Model name	05. RAS-2.5WHVRP1 RWD-2.5RW1E-220S-K - UK Version - 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	1x230V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.25 kW	2.08 kW
COP	4.80	2.85

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

EHPA Secretariat | Rue d'Arlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com

Disclaimer: this document is a summary of the certified performance.  
The authoritative source of this information is the heat pump certificate as executed by the certification body and the related technical data.

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	177 %	127 %
Prated	6.00 kW	5.00 kW
SCOP	4.57	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.10 kW	4.42 kW
COP Tj = -7°C	2.70	1.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.10 kW	2.69 kW
COP Tj = +2°C	4.60	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	6.20	4.95
Cdh Tj = +7 °C	0.900	0.900

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

Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	8.35	6.78
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.10 kW	4.42 kW
COP Tj = Tbiv	2.70	1.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.30 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.70 kW	1.10 kW
Annual energy consumption Qhe	2652 kWh	3186 kWh

## Cooling



### EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	5.30 kW	6.30 kW
Cooling capacity	1.47	1.24
EER	3.60	5.10

### EN 14825

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

	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	5.30 kW	6.30 kW
SEER	5.48	8.46
P <sub>dc</sub> T <sub>j</sub> = 35°C	5.30 kW	6.30 kW
EER T <sub>j</sub> = 35°C	3.60	5.10
P <sub>dc</sub> T <sub>j</sub> = 30°C	3.91 kW	4.64 kW
EER T <sub>j</sub> = 30°C	4.50	7.00
C <sub>dc</sub>	0.900	0.900
P <sub>dc</sub> T <sub>j</sub> = 25°C	2.51 kW	2.98 kW
EER T <sub>j</sub> = 25°C	6.30	9.90
C <sub>dc</sub>	0.900	0.900
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.88 kW	2.65 kW
EER T <sub>j</sub> = 20°C	8.20	12.61
C <sub>dc</sub>	0.900	0.900
P <sub>off</sub>	12 W	12 W
PTO	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	581 kWh	445 kWh

## Domestic Hot Water (DHW)

### Average Climate

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

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	130 %
COP	3.20
Heating up time	1:55 h:min
Standby power input	30.0 W
Reference hot water temperature	52.6 °C
Mixed water at 40°C	288 l

# Model: 06. RAS-2.5WHVRP1 RWD-2.5RW1E-220S-K - UK Version - with cooling kit

Configure model	
Model name	06. RAS-2.5WHVRP1 RWD-2.5RW1E-220S-K - UK Version - with cooling kit
Application	Heating + DHW + low 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	1x230V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.25 kW	2.08 kW
COP	4.80	2.85

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

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	180 %	128 %
Prated	6.00 kW	5.00 kW
SCOP	4.57	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.10 kW	4.42 kW
COP Tj = -7°C	2.70	1.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.10 kW	2.69 kW
COP Tj = +2°C	4.60	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	6.20	4.95

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

Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	8.35	6.78
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.10 kW	4.42 kW
COP Tj = Tbiv	2.70	1.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.30 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.70 kW	1.10 kW
Annual energy consumption Qhe	2608 kWh	3143 kWh

## Cooling

### EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	1.47 kW	1.24 kW
Cooling capacity	5.30	6.30
EER	3.60	5.10

### EN 14825

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

	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	5.30 kW	6.30 kW
SEER	5.48	8.50
P <sub>dc</sub> T <sub>j</sub> = 35°C	5.30 kW	6.30 kW
EER T <sub>j</sub> = 35°C	3.60	5.30
P <sub>dc</sub> T <sub>j</sub> = 30°C	3.91 kW	4.64 kW
EER T <sub>j</sub> = 30°C	4.50	7.00
C <sub>dc</sub>	0.900	0.900
P <sub>dc</sub> T <sub>j</sub> = 25°C	2.51 kW	2.98 kW
EER T <sub>j</sub> = 25°C	6.30	9.90
C <sub>dc</sub>	0.900	0.900
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.88 kW	2.65 kW
EER T <sub>j</sub> = 20°C	8.20	12.61
C <sub>dc</sub>	0.900	0.900
P <sub>off</sub>	12 W	12 W
P <sub>TO</sub>	0 W	0 W
P <sub>SB</sub>	12 W	12 W
P <sub>CK</sub>	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	581 kWh	445 kWh

## Domestic Hot Water (DHW)

### Average Climate



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

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	130 %
COP	3.20
Heating up time	1:55 h:min
Standby power input	30.0 W
Reference hot water temperature	52.6 °C
Mixed water at 40°C	288 l

# Model: 01. RAS-2.5WHVRP1 RWM-2.5R1E - Heating Only

Configure model	
Model name	01. RAS-2.5WHVRP1 RWM-2.5R1E - 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	1x230V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.25 kW	2.08 kW
COP	4.80	2.85

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

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	177 %	127 %
Prated	6.00 kW	5.00 kW
SCOP	4.57	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.10 kW	4.42 kW
COP Tj = -7°C	2.70	1.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.10 kW	2.69 kW
COP Tj = +2°C	4.60	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	6.20	4.95
Cdh Tj = +7 °C	0.900	0.900

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

Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	8.35	6.78
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.10 kW	4.42 kW
COP Tj = Tbiv	2.70	1.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.30 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.70 kW	1.10 kW
Annual energy consumption Qhe	2652 kWh	3186 kWh

## Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
El input	5.30 kW	6.30 kW
Cooling capacity	1.47	1.24
EER	3.60	5.10

**EN 14825**

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

	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	5.30 kW	6.30 kW
SEER	5.48	8.46
P <sub>dc</sub> T <sub>j</sub> = 35°C	5.30 kW	6.30 kW
EER T <sub>j</sub> = 35°C	3.60	5.10
P <sub>dc</sub> T <sub>j</sub> = 30°C	3.91 kW	4.64 kW
EER T <sub>j</sub> = 30°C	4.50	7.00
C <sub>dc</sub>	0.900	0.900
P <sub>dc</sub> T <sub>j</sub> = 25°C	2.51 kW	2.98 kW
EER T <sub>j</sub> = 25°C	6.30	9.90
C <sub>dc</sub>	0.900	0.900
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.88 kW	2.65 kW
EER T <sub>j</sub> = 20°C	8.20	12.61
C <sub>dc</sub>	0.900	0.900
P <sub>off</sub>	12 W	12 W
P <sub>TO</sub>	0 W	0 W
P <sub>SB</sub>	12 W	12 W
P <sub>CK</sub>	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	581 kWh	445 kWh

## Model: 02. RAS-2.5WHVRP1 RWM-2.5R1E - with cooling kit

Configure model	
Model name	02. RAS-2.5WHVRP1 RWM-2.5R1E - 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	1x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.25 kW	2.08 kW
COP	4.80	2.85

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

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	180 %	128 %
Prated	6.00 kW	5.00 kW
SCOP	4.57	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.10 kW	4.42 kW
COP Tj = -7°C	2.70	1.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.10 kW	2.69 kW
COP Tj = +2°C	4.60	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.00 kW	2.43 kW
COP Tj = +7°C	6.20	4.95
Cdh Tj = +7 °C	0.900	0.900



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

Pdh Tj = 12°C	3.05 kW	2.80 kW
COP Tj = 12°C	8.35	6.78
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.10 kW	4.42 kW
COP Tj = Tbiv	2.70	1.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.30 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.70 kW	1.10 kW
Annual energy consumption Qhe	2608 kWh	3143 kWh

## Cooling

### EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	1.47 kW	1.24 kW
Cooling capacity	5.30	6.30
EER	3.60	5.10

### EN 14825

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	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	5.30 kW	6.30 kW
SEER	5.48	8.50
P <sub>dc</sub> T <sub>j</sub> = 35°C	5.30 kW	6.30 kW
EER T <sub>j</sub> = 35°C	3.60	5.30
P <sub>dc</sub> T <sub>j</sub> = 30°C	3.91 kW	4.64 kW
EER T <sub>j</sub> = 30°C	4.50	7.00
C <sub>dc</sub>	0.900	0.900
P <sub>dc</sub> T <sub>j</sub> = 25°C	2.51 kW	2.98 kW
EER T <sub>j</sub> = 25°C	6.30	9.90
C <sub>dc</sub>	0.900	0.900
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.88 kW	2.65 kW
EER T <sub>j</sub> = 20°C	8.20	12.61
C <sub>dc</sub>	0.900	0.900
P <sub>off</sub>	12 W	12 W
P <sub>TO</sub>	0 W	0 W
P <sub>SB</sub>	12 W	12 W
P <sub>CK</sub>	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	581 kWh	445 kWh