

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

Summary of	03. Yutaki S & S Combi 3.0HP	Reg. No.	041-K002-03
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	03. Yutaki S & S Combi 3.0HP		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	1.7 kg		

Model: RAS-3WHVNP RWM-3.0NE - Heating Only

General Data

Power supply	1x230V 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	7.50 kW	7.50 kW
El input	2.92 kW	2.08 kW
COP	4.55	2.57
Indoor water flow rate	1.29 m ³ /h	0.80 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	37 dB(A)	37 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	165 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.20	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW

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

COP Tj = Tbiv	2.50	1.84
Pdh Tj = TOL	6.40 kW	4.30 kW
COP Tj = TOL	2.30	1.65
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.60 kW	1.50 kW
Annual energy consumption Qhe	3286 kWh	3724 kWh

Model: RAS-3WHVNP RWD-3.0NWE-200S - Heating Only

General Data

Power supply	1x230V 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	7.50 kW	7.50 kW
El input	2.92 kW	2.08 kW
COP	4.55	2.57
Indoor water flow rate	1.29 m ³ /h	0.80 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	37 dB(A)	37 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	165 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.20	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW

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

COP Tj = Tbiv	2.50	1.84
Pdh Tj = TOL	6.40 kW	4.30 kW
COP Tj = TOL	2.30	1.65
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.60 kW	1.50 kW
Annual energy consumption Qhe	3286 kWh	3724 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}	132 %
COP	3.30
Heating up time	1:43 h:min
Standby power input	37.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	263 l

Model: RAS-3WHVNP RWD-3.0NWE-260S - Heating Only

General Data

Power supply	1x230V 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	7.50 kW	7.50 kW
El input	2.92 kW	2.08 kW
COP	4.55	2.57
Indoor water flow rate	1.29 m ³ /h	0.80 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	37 dB(A)	37 dB(A)
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EN 14825

	Low temperature	Medium temperature
η_s	165 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.20	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW

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

COP Tj = Tbiv	2.50	1.84
Pdh Tj = TOL	6.40 kW	4.30 kW
COP Tj = TOL	2.30	1.65
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.60 kW	1.50 kW
Annual energy consumption Qhe	3286 kWh	3724 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}	136 %
COP	3.40
Heating up time	2:10 h:min
Standby power input	41.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l

Model: RAS-3WHVNP RWD-3.0NWE-200S-K - UK- Heating Only

General Data

Power supply	1x230V 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	7.50 kW	7.50 kW
El input	2.92 kW	2.08 kW
COP	4.55	2.57
Indoor water flow rate	1.29 m ³ /h	0.80 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	37 dB(A)	37 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	165 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.20	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW

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

COP Tj = Tbiv	2.50	1.84
Pdh Tj = TOL	6.40 kW	4.30 kW
COP Tj = TOL	2.30	1.65
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.60 kW	1.50 kW
Annual energy consumption Qhe	3286 kWh	3724 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}	132 %
COP	3.30
Heating up time	1:43 h:min
Standby power input	37.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	263 l

Model: RAS-3WHVNP RWD-3.0NWE-260S-K - UK- Heating Only

General Data

Power supply	1x230V 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	7.50 kW	7.50 kW
El input	2.92 kW	2.08 kW
COP	4.55	2.57
Indoor water flow rate	1.29 m ³ /h	0.80 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	37 dB(A)	37 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	165 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.20	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW

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

COP $T_j = T_{biv}$	2.50	1.84
P _{dh} $T_j = TOL$	6.40 kW	4.30 kW
COP $T_j = TOL$	2.30	1.65
C _{dh}	0.90	0.90
WTOL	55 °C	55 °C
P _{off}	11 W	11 W
P _{TO}	0 W	0 W
P _{SB}	11 W	11 W
P _{CK}	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.60 kW	1.50 kW
Annual energy consumption Q _{he}	3286 kWh	3724 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}	136 %
COP	3.40
Heating up time	2:10 h:min
Standby power input	41.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l

Model: RAS-3WHVNP RWD-3.0NWSE-260S - Solar - Heating Only

General Data

Power supply	1x230V 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	7.50 kW	7.50 kW
EI input	2.92 kW	2.08 kW
COP	4.55	2.57
Indoor water flow rate	1.29 m ³ /h	0.80 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	37 dB(A)	37 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	165 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.20	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW

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

COP Tj = Tbiv	2.50	1.84
Pdh Tj = TOL	6.40 kW	4.30 kW
COP Tj = TOL	2.30	1.65
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.60 kW	1.50 kW
Annual energy consumption Qhe	3286 kWh	3724 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}	136 %
COP	3.40
Heating up time	2:10 h:min
Standby power input	41.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l

Model: RAS-3WHVNP RWM-3.0NE - with cooling kit

General Data

Power supply	1x230V 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	7.50 kW	7.50 kW
El input	2.92 kW	2.08 kW
COP	4.55	2.57
Indoor water flow rate	1.29 m ³ /h	0.80 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	37 dB(A)	37 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	167 %	127 %
Prated	7.00 kW	6.00 kW
SCOP	4.25	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW

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

COP Tj = Tbiv	2.50	1.84
Pdh Tj = TOL	6.40 kW	4.30 kW
COP Tj = TOL	2.30	1.65
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.60 kW	1.50 kW
Annual energy consumption Qhe	3242 kWh	3690 kWh

Model: RAS-3WHVNP RWD-3.0NWE-200S - with cooling kit

General Data

Power supply	1x230V 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	7.50 kW	7.50 kW
El input	2.92 kW	2.08 kW
COP	4.55	2.57
Indoor water flow rate	1.29 m ³ /h	0.80 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	37 dB(A)	37 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	167 %	127 %
Prated	7.00 kW	6.00 kW
SCOP	4.25	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW

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COP Tj = Tbiv	2.50	1.84
Pdh Tj = TOL	6.40 kW	4.30 kW
COP Tj = TOL	2.30	1.65
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.60 kW	1.50 kW
Annual energy consumption Qhe	3242 kWh	3690 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}	132 %
COP	3.30
Heating up time	1:43 h:min
Standby power input	37.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	263 l

Model: RAS-3WHVNP RWD-3.0NWE-260S - with cooling kit

General Data

Power supply	1x230V 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	7.50 kW	7.50 kW
El input	2.92 kW	2.08 kW
COP	4.55	2.57
Indoor water flow rate	1.29 m ³ /h	0.80 m ³ /h

Average Climate

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	Low temperature	Medium temperature
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EN 14825

	Low temperature	Medium temperature
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Prated	7.00 kW	6.00 kW
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COP Tj = -7°C	2.50	1.84
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COP Tj = +2°C	4.40	3.20
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COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
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WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.60 kW	1.50 kW
Annual energy consumption Qhe	3242 kWh	3690 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}	136 %
COP	3.40
Heating up time	2:10 h:min
Standby power input	41.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l

Model: RAS-3WHVNP RWD-3.0NWSE-260S - Solar - with cooling kit

General Data

Power supply	1x230V 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	7.50 kW	7.50 kW
El input	2.92 kW	2.08 kW
COP	4.55	2.57
Indoor water flow rate	1.29 m ³ /h	0.80 m ³ /h

Average Climate

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	Low temperature	Medium temperature
η_s	167 %	127 %
Prated	7.00 kW	6.00 kW
SCOP	4.25	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
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COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW

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

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Pdh Tj = TOL	6.40 kW	4.30 kW
COP Tj = TOL	2.30	1.65
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.60 kW	1.50 kW
Annual energy consumption Qhe	3242 kWh	3690 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}	136 %
COP	3.40
Heating up time	2:10 h:min
Standby power input	41.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l