

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

Summary of	04. Yutaki S & S Combi 4.0HP (mono)	Reg. No.	041-K002-04
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	04. Yutaki S & S Combi 4.0HP (mono)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	3.3 kg		

# Model: RAS-4WHVNPE RWM-4.0NE - 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	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
COP	5.00	3.00
Indoor water flow rate	1.89 m <sup>3</sup> /h	1.18 m <sup>3</sup> /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	64 dB(A)	64 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	187 %	136 %
Prated	11.00 kW	10.00 kW
SCOP	4.75	3.48
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	8.60 kW
COP Tj = -7°C	2.74	1.80
Pdh Tj = +2°C	5.84 kW	5.23 kW
COP Tj = +2°C	5.20	3.60
Pdh Tj = +7°C	3.76 kW	3.52 kW
COP Tj = +7°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

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COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL	10.50 kW	7.40 kW
COP Tj = TOL	2.65	1.70
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 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	4714 kWh	5815 kWh

# Model: RAS-4WHVNPE RWD-4.0NWE-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	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
COP	5.00	3.00
Indoor water flow rate	1.89 m <sup>3</sup> /h	1.18 m <sup>3</sup> /h

## Average Climate

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### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
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### EN 14825

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COP Tj = +2°C	5.20	3.60
Pdh Tj = +7°C	3.76 kW	3.52 kW
COP Tj = +7°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

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

COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL	10.50 kW	7.40 kW
COP Tj = TOL	2.65	1.70
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 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	4714 kWh	5815 kWh

## Domestic Hot Water (DHW)

### Average Climate

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

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	130 %
COP	3.25
Heating up time	1:23 h:min
Standby power input	42.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	263 l



# Model: RAS-4WHVNPE RWD-4.0NWE-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	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
COP	5.00	3.00
Indoor water flow rate	1.89 m <sup>3</sup> /h	1.18 m <sup>3</sup> /h

## Average Climate

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Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	8.60 kW
COP Tj = -7°C	2.74	1.80
Pdh Tj = +2°C	5.84 kW	5.23 kW
COP Tj = +2°C	5.20	3.60
Pdh Tj = +7°C	3.76 kW	3.52 kW
COP Tj = +7°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

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

COP $T_j = T_{biv}$	2.74	1.80
P <sub>dh</sub> $T_j = TOL$	10.50 kW	7.40 kW
COP $T_j = TOL$	2.65	1.70
C <sub>dh</sub>	0.90	0.90
WTOL	55 °C	55 °C
P <sub>off</sub>	13 W	13 W
P <sub>TO</sub>	0 W	0 W
P <sub>SB</sub>	13 W	13 W
P <sub>CK</sub>	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.50 kW	2.30 kW
Annual energy consumption Q <sub>he</sub>	4714 kWh	5815 kWh

## Domestic Hot Water (DHW)

### Average Climate

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

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	134 %
COP	3.35
Heating up time	1:44 h:min
Standby power input	44.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l

# Model: RAS-4WHVNPE RWD-4.0NWE-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	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
COP	5.00	3.00
Indoor water flow rate	1.89 m <sup>3</sup> /h	1.18 m <sup>3</sup> /h

## Average Climate

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### 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
$\eta_s$	187 %	136 %
Prated	11.00 kW	10.00 kW
SCOP	4.75	3.48
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	8.60 kW
COP Tj = -7°C	2.74	1.80
Pdh Tj = +2°C	5.84 kW	5.23 kW
COP Tj = +2°C	5.20	3.60
Pdh Tj = +7°C	3.76 kW	3.52 kW
COP Tj = +7°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

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

COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL	10.50 kW	7.40 kW
COP Tj = TOL	2.65	1.70
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 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	4714 kWh	5815 kWh

## Domestic Hot Water (DHW)

### Average Climate

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

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	130 %
COP	3.25
Heating up time	1:23 h:min
Standby power input	42.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	263 l



# Model: RAS-4WHVNPE RWD-4.0NWE-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	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
COP	5.00	3.00
Indoor water flow rate	1.89 m <sup>3</sup> /h	1.18 m <sup>3</sup> /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	64 dB(A)	64 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	187 %	136 %
Prated	11.00 kW	10.00 kW
SCOP	4.75	3.48
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	8.60 kW
COP Tj = -7°C	2.74	1.80
Pdh Tj = +2°C	5.84 kW	5.23 kW
COP Tj = +2°C	5.20	3.60
Pdh Tj = +7°C	3.76 kW	3.52 kW
COP Tj = +7°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

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

COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL	10.50 kW	7.40 kW
COP Tj = TOL	2.65	1.70
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 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	4714 kWh	5815 kWh

## Domestic Hot Water (DHW)

### Average Climate

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

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	134 %
COP	3.35
Heating up time	1:44 h:min
Standby power input	44.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l

# Model: RAS-4WHVNPE RWD-4.0NWSE-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	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
COP	5.00	3.00
Indoor water flow rate	1.89 m <sup>3</sup> /h	1.18 m <sup>3</sup> /h

## Average Climate

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### 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
$\eta_s$	187 %	136 %
Prated	11.00 kW	10.00 kW
SCOP	4.75	3.48
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	8.60 kW
COP Tj = -7°C	2.74	1.80
Pdh Tj = +2°C	5.84 kW	5.23 kW
COP Tj = +2°C	5.20	3.60
Pdh Tj = +7°C	3.76 kW	3.52 kW
COP Tj = +7°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

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COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL	10.50 kW	7.40 kW
COP Tj = TOL	2.65	1.70
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 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	4714 kWh	5815 kWh

## Domestic Hot Water (DHW)

### Average Climate

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

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	134 %
COP	3.35
Heating up time	1:44 h:min
Standby power input	44.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l



# Model: RAS-4WHVNPE RWM-4.0NE - 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	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
COP	5.00	3.00
Indoor water flow rate	1.89 m <sup>3</sup> /h	1.18 m <sup>3</sup> /h

## Average Climate

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	Low temperature	Medium temperature
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### 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°C	9.60 kW	8.60 kW
COP Tj = -7°C	2.74	1.80
Pdh Tj = +2°C	5.84 kW	5.23 kW
COP Tj = +2°C	5.20	3.60
Pdh Tj = +7°C	3.76 kW	3.52 kW
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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

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

COP $T_j = T_{biv}$	2.74	1.80
P <sub>dh</sub> $T_j = TOL$	10.50 kW	7.40 kW
COP $T_j = TOL$	2.65	1.70
C <sub>dh</sub>	0.90	0.90
WTOL	55 °C	55 °C
P <sub>off</sub>	13 W	13 W
P <sub>TO</sub>	0 W	0 W
P <sub>SB</sub>	13 W	13 W
P <sub>CK</sub>	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: P <sub>SUP</sub>	0.50 kW	2.30 kW
Annual energy consumption Q <sub>he</sub>	4666 kWh	5767 kWh

# Model: RAS-4WHVNPE RWD-4.0NWE-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	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
COP	5.00	3.00
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Pdh Tj = +7°C	3.76 kW	3.52 kW
COP Tj = +7°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

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

COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL	10.50 kW	7.40 kW
COP Tj = TOL	2.65	1.70
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 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

## Domestic Hot Water (DHW)

### Average Climate

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

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	130 %
COP	3.25
Heating up time	1:23 h:min
Standby power input	42.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	263 l

# Model: RAS-4WHVNPE RWD-4.0NWE-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	11.00 kW	11.00 kW
El input	2.20 kW	3.67 kW
COP	5.00	3.00
Indoor water flow rate	1.89 m <sup>3</sup> /h	1.18 m <sup>3</sup> /h

## Average Climate



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COP Tj = 12°C	6.40	5.80
Pdh Tj = Tbiv	9.60 kW	8.60 kW

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

COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL	10.50 kW	7.40 kW
COP Tj = TOL	2.65	1.70
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 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

## Domestic Hot Water (DHW)

### Average Climate

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

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	134 %
COP	3.35
Heating up time	1:44 h:min
Standby power input	44.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l

# Model: RAS-4WHVNPE RWD-4.0NWSE-260S - Solar - with cooling kit

## General Data

Power supply	1x230V 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
COP	5.00	3.00
Indoor water flow rate	1.89 m <sup>3</sup> /h	1.18 m <sup>3</sup> /h

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	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°C	9.60 kW	8.60 kW
COP Tj = -7°C	2.74	1.80
Pdh Tj = +2°C	5.84 kW	5.23 kW
COP Tj = +2°C	5.20	3.60
Pdh Tj = +7°C	3.76 kW	3.52 kW
COP Tj = +7°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

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

COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL	10.50 kW	7.40 kW
COP Tj = TOL	2.65	1.70
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 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

## Domestic Hot Water (DHW)

### Average Climate

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

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	134 %
COP	3.35
Heating up time	1:44 h:min
Standby power input	44.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l