

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

Summary of	LWZ 5/8	Reg. No.	011-1W0037
Certificate Holder			
Name	STIEBEL ELTRON GmbH & Co KG		
Address	Dr. Stiebel Straße 33	Zip	37603
City	Holzminde	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	Universität Stuttgart Institut für GebäudeEnergetik		
Subtype title	LWZ 5/8		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.95 kg		
Certification Date	31.10.2020		

Model: LWZ 8 CS Premium

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.40 kW	3.84 kW
El input	0.93 kW	1.44 kW
COP	4.74	2.66
Indoor water flow rate	0.77 m ³ /h	0.42 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	52 dB(A)	52 dB(A)
Sound power level outdoor	55 dB(A)	50 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	163 %	128 %
Prated	10.00 kW	7.00 kW
SCOP	4.14	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.42 kW	5.87 kW
COP Tj = -7°C	2.76	2.26
Pdh Tj = +2°C	5.12 kW	3.52 kW
COP Tj = +2°C	3.94	3.27
Pdh Tj = +7°C	3.26 kW	2.72 kW
COP Tj = +7°C	5.53	4.14
Pdh Tj = 12°C	3.35 kW	3.20 kW
COP Tj = 12°C	7.09	5.29
Pdh Tj = Tbiv	8.42 kW	5.87 kW

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COP Tj = Tbiv	2.76	2.26
Pdh Tj = TOL	8.37 kW	2.67 kW
COP Tj = TOL	2.69	1.88
Rated airflow rate	0 m³/h	0 m³/h
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.15 kW	3.97 kW
Annual energy consumption Qhe	4755 kWh	4199 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)
Sound power level outdoor	55 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature

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

η_s	207 %	150 %
Prated	9.00 kW	8.00 kW
SCOP	5.24	3.82
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = -7°C	0.00 kW	0.00 kW
COP Tj = -7°C	0.00	0.00
Pdh Tj = +2°C	8.81 kW	8.32 kW
COP Tj = +2°C	3.18	2.34
Pdh Tj = +7°C	5.77 kW	5.41 kW
COP Tj = +7°C	4.57	3.26
Pdh Tj = 12°C	3.34 kW	3.17 kW
COP Tj = 12°C	6.89	5.11
Pdh Tj = Tbiv	8.81 kW	8.32 kW
COP Tj = Tbiv	3.18	2.34
Pdh Tj = TOL	8.81 kW	8.32 kW
COP Tj = TOL	3.18	2.34
Rated airflow rate	0 m³/h	0 m³/h
Cdh	0.98	0.98
WTOL	60 °C	60 °C

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

Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2243 kWh	2911 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)
Sound power level outdoor	55 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	131 %	102 %
Prated	14.00 kW	11.00 kW
SCOP	3.34	2.62
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-13 °C

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

Pdh Tj = -7°C	8.62 kW	6.38 kW
COP Tj = -7°C	2.96	2.50
Pdh Tj = +2°C	5.28 kW	3.92 kW
COP Tj = +2°C	4.20	3.48
Pdh Tj = +7°C	3.42 kW	2.79 kW
COP Tj = +7°C	5.87	4.68
Pdh Tj = 12°C	3.35 kW	3.24 kW
COP Tj = 12°C	7.12	5.67
Pdh Tj = Tbiv	8.62 kW	6.38 kW
COP Tj = Tbiv	2.56	2.50
Pdh Tj = TOL	5.73 kW	2.58 kW
COP Tj = TOL	2.56	6.38
Rated airflow rate	0 m³/h	0 m³/h
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	14.24 kW	10.57 kW

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

Annual energy consumption Q _{he}	10498 kWh	9932 kWh
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Model: LWZ 8 S Trend

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.40 kW	3.84 kW
El input	0.93 kW	1.44 kW
COP	4.74	2.66
Indoor water flow rate	0.77 m ³ /h	0.42 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	52 dB(A)	52 dB(A)
Sound power level outdoor	55 dB(A)	50 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	155 %	121 %
Prated	10.00 kW	7.00 kW
SCOP	3.95	3.10
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.42 kW	5.87 kW
COP Tj = -7°C	2.76	2.26
Pdh Tj = +2°C	5.12 kW	3.52 kW
COP Tj = +2°C	3.94	3.27
Pdh Tj = +7°C	3.26 kW	2.72 kW
COP Tj = +7°C	5.53	4.14
Pdh Tj = 12°C	3.35 kW	3.20 kW
COP Tj = 12°C	7.09	5.29
Pdh Tj = Tbiv	8.42 kW	5.87 kW

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

COP Tj = Tbiv	2.76	2.26
Pdh Tj = TOL	8.37 kW	2.67 kW
COP Tj = TOL	2.69	1.88
Rated airflow rate	0 m³/h	0 m³/h
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.15 kW	3.97 kW
Annual energy consumption Qhe	4982 kWh	4427 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)
Sound power level outdoor	5 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature

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

η_s	184 %	133 %
Prated	9.00 kW	8.00 kW
SCOP	4.67	3.41
Tbiv	2 °C	0 °C
TOL	2 °C	0 °C
Pdh Tj = -7°C	0.00 kW	0.00 kW
COP Tj = -7°C	0.00	0.00
Pdh Tj = +2°C	8.81 kW	8.32 kW
COP Tj = +2°C	3.18	2.34
Pdh Tj = +7°C	5.77 kW	5.41 kW
COP Tj = +7°C	4.57	3.26
Pdh Tj = 12°C	3.34 kW	3.17 kW
COP Tj = 12°C	6.89	5.11
Pdh Tj = Tbiv	8.81 kW	8.32 kW
COP Tj = Tbiv	3.18	2.34
Pdh Tj = TOL	8.81 kW	8.32 kW
COP Tj = TOL	3.18	2.34
Rated airflow rate	0 m³/h	0 m³/h
Cdh	0.98	0.98
WTOL	60 °C	60 °C

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

Poff	24 W	24 W
PTO	69 W	69 W
PSB	24 W	24 W
PCK	55 W	55 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2517 kWh	3264 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)
Sound power level outdoor	55 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	129 %	100 %
Prated	14.00 kW	11.00 kW
SCOP	3.30	2.58
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-13 °C

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

Pdh Tj = -7°C	8.62 kW	6.38 kW
COP Tj = -7°C	2.96	2.50
Pdh Tj = +2°C	5.28 kW	3.92 kW
COP Tj = +2°C	4.20	3.48
Pdh Tj = +7°C	3.42 kW	2.79 kW
COP Tj = +7°C	5.87	4.68
Pdh Tj = 12°C	3.35 kW	3.24 kW
COP Tj = 12°C	7.12	5.67
Pdh Tj = Tbiv	8.62 kW	6.38 kW
COP Tj = Tbiv	2.56	2.50
Pdh Tj = TOL	5.73 kW	2.58 kW
COP Tj = TOL	2.56	2.09
Rated airflow rate	0 m³/h	0 m³/h
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	14.24 kW	10.57 kW

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

Annual energy consumption Q _{he}	10634 kWh	10109 kWh
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Model: LWZ 8 CS Premium DHW

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2

	Medium temperature
Heat output	3.84 kW
El input	1.44 kW
COP	2.66
Indoor water flow rate	0.42 m ³ /h

Average Climate

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

EN 12102-1

	Medium temperature
Sound power level indoor	52 dB(A)
Sound power level outdoor	50 dB(A)

EN 14825

	Medium temperature
η_s	128 %
Prated	7.00 kW
SCOP	3.27
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	5.87 kW
COP Tj = -7°C	2.26
Pdh Tj = +2°C	3.52 kW
COP Tj = +2°C	3.27
Pdh Tj = +7°C	2.72 kW
COP Tj = +7°C	4.14
Pdh Tj = 12°C	3.20 kW
COP Tj = 12°C	5.29
Pdh Tj = Tbiv	5.87 kW

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

COP $T_j = T_{biv}$	2.26
P _{dh} $T_j = TOL$	2.67 kW
COP $T_j = TOL$	1.88
Rated airflow rate	0 m ³ /h
C _{dh}	0.98
WTOL	60 °C
P _{off}	27 W
PTO	63 W
PSB	27 W
PCK	35 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	3.97 kW
Annual energy consumption Q _{he}	4199 kWh

Warmer Climate

Colder Climate

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
COP	2.70
Heating up time	02:06 h:min
Standby power input	132.0 W
Reference hot water temperature	57.0 °C
Mixed water at 40°C	352 l
Efficiency η_{DHW}	111 %

Warmer Climate

EN 16147	
Declared load profile	1
Efficiency η_{DHW}	1 %
COP	1.00
Heating up time	1 h:min
Standby power input	1 W
Reference hot water temperature	1.00 °C
Mixed water at 40°C	1 l

Colder Climate

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

EN 16147	
Declared load profile	1
Efficiency η_{DHW}	1 %
COP	1.00
Heating up time	1 h:min
Standby power input	1 W
Reference hot water temperature	1.00 °C
Mixed water at 40°C	1 l

Model: LWZ 5 S Plus

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.40 kW	3.84 kW
El input	0.93 kW	1.44 kW
COP	4.74	2.66
Indoor water flow rate	0.77 m ³ /h	0.42 m ³ /h

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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	154 %	121 %
Prated	6.00 kW	6.00 kW
SCOP	3.92	3.11
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.48 kW	5.54 kW
COP Tj = -7°C	2.93	2.26
Pdh Tj = +2°C	3.28 kW	3.41 kW
COP Tj = +2°C	4.18	3.27
Pdh Tj = +7°C	2.86 kW	2.71 kW
COP Tj = +7°C	5.43	4.09
Pdh Tj = 12°C	3.34 kW	3.19 kW
COP Tj = 12°C	6.96	5.29
Pdh Tj = Tbiv	5.48 kW	5.54 kW

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

COP Tj = Tbiv	2.93	2.26
Pdh Tj = TOL	5.48 kW	2.67 kW
COP Tj = TOL	2.82	1.88
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.75 kW	3.55 kW
Annual energy consumption Qhe	3280 kWh	4138 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	Medium temperature

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

η_s	178 %	134 %
Prated	7.00 kW	7.00 kW
SCOP	4.53	3.42
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.70 kW	6.89 kW
COP Tj = +2°C	3.38	2.50
Pdh Tj = +7°C	4.31 kW	4.47 kW
COP Tj = +7°C	4.81	3.28
Pdh Tj = 12°C	3.32 kW	3.16 kW
COP Tj = 12°C	6.73	4.98
Pdh Tj = Tbiv	6.70 kW	6.68 kW
COP Tj = Tbiv	3.38	2.50
Pdh Tj = TOL	6.70 kW	6.89 kW
COP Tj = TOL	3.38	2.50
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W

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

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1977 kWh	2694 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	135 %	101 %
Prated	9.00 kW	9.00 kW
SCOP	3.45	2.60
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-13 °C
P _{dh} T _j = -7°C	5.57 kW	5.31 kW
COP T _j = -7°C	3.14	2.52
P _{dh} T _j = +2°C	3.45 kW	3.28 kW
COP T _j = +2°C	4.51	3.50

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

Pdh Tj = +7°C	2.89 kW	2.78 kW
COP Tj = +7°C	5.78	4.56
Pdh Tj = 12°C	3.34 kW	3.23 kW
COP Tj = 12°C	6.96	5.59
Pdh Tj = Tbiv	5.57 kW	5.31 kW
COP Tj = Tbiv	3.14	2.52
Pdh Tj = TOL	4.36 kW	2.58 kW
COP Tj = TOL	2.55	2.09
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	9.52 kW	8.76 kW
Annual energy consumption Qhe	6605 kWh	8311 kWh

Model: LWZ 5 S Smart

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.40 kW	3.84 kW
El input	0.93 kW	1.44 kW
COP	4.74	2.66
Indoor water flow rate	0.77 m ³ /h	0.42 m ³ /h

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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	154 %	121 %
Prated	6.00 kW	6.00 kW
SCOP	3.92	3.11
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.48 kW	5.54 kW
COP Tj = -7°C	2.93	2.26
Pdh Tj = +2°C	3.28 kW	3.41 kW
COP Tj = +2°C	2.93	2.26
Pdh Tj = +7°C	2.86 kW	2.71 kW
COP Tj = +7°C	5.43	4.09
Pdh Tj = 12°C	3.34 kW	3.19 kW
COP Tj = 12°C	6.96	5.26
Pdh Tj = Tbiv	5.48 kW	5.54 kW
COP Tj = Tbiv	2.93	2.26

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

Pdh Tj = TOL	5.47 kW	2.67 kW
COP Tj = TOL	2.82	1.88
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.75 kW	3.55 kW
Annual energy consumption Qhe	3280 kWh	4138 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	178 %	134 %
Prated	7.00 kW	7.00 kW

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

SCOP	4.53	3.42
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.70 kW	6.89 kW
COP Tj = +2°C	3.38	2.50
Pdh Tj = +7°C	4.31 kW	4.47 kW
COP Tj = +7°C	4.81	3.28
Pdh Tj = 12°C	3.32 kW	3.16 kW
COP Tj = 12°C	6.73	4.98
Pdh Tj = Tbiv	6.70 kW	6.89 kW
COP Tj = Tbiv	3.38	2.50
Pdh Tj = TOL	6.70 kW	6.89 kW
COP Tj = TOL	3.38	2.50
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

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

Annual energy consumption Q_{he}	1977 kWh	2694 kWh
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Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	135 %	101 %
Prated	9.00 kW	9.00 kW
SCOP	3.45	2.60
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	5.57 kW	5.31 kW
COP Tj = -7°C	3.14	2.52
Pdh Tj = +2°C	4.51 kW	3.50 kW
COP Tj = +2°C	4.51	3.50
Pdh Tj = +7°C	2.89 kW	2.78 kW
COP Tj = +7°C	5.78	4.56
Pdh Tj = 12°C	3.34 kW	3.23 kW

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

COP Tj = 12°C	6.96	5.59
Pdh Tj = Tbiv	5.57 kW	5.31 kW
COP Tj = Tbiv	2.55	2.09
Pdh Tj = TOL	4.36 kW	2.58 kW
COP Tj = TOL	2.55	2.09
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	9.25 kW	8.76 kW
Annual energy consumption Qhe	6605 kWh	8311 kWh

Model: LWZ 5 S Trend

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.40 kW	3.84 kW
El input	0.93 kW	1.44 kW
COP	4.74	2.66
Indoor water flow rate	0.77 m ³ /h	0.42 m ³ /h

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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	154 %	121 %
Prated	6.00 kW	6.00 kW
SCOP	3.92	3.11
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.48 kW	5.54 kW
COP Tj = -7°C	2.93	2.26
Pdh Tj = +2°C	3.28 kW	3.41 kW
COP Tj = +2°C	4.18	3.27
Pdh Tj = +7°C	2.86 kW	2.71 kW
COP Tj = +7°C	5.43	4.09
Pdh Tj = 12°C	3.34 kW	3.19 kW
COP Tj = 12°C	6.96	5.26
Pdh Tj = Tbiv	5.48 kW	5.54 kW
COP Tj = Tbiv	2.93	2.26

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

Pdh Tj = TOL	5.47 kW	2.67 kW
COP Tj = TOL	2.82	1.88
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.75 kW	3.55 kW
Annual energy consumption Qhe	3280 kWh	4138 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	178 %	134 %
Prated	7.00 kW	7.00 kW

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

SCOP	4.53	3.42
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.70 kW	6.89 kW
COP Tj = +2°C	3.38	2.50
Pdh Tj = +7°C	4.31 kW	4.47 kW
COP Tj = +7°C	4.81	3.28
Pdh Tj = 12°C	3.32 kW	3.16 kW
COP Tj = 12°C	6.73	4.98
Pdh Tj = Tbiv	6.70 kW	6.89 kW
COP Tj = Tbiv	3.38	2.50
Pdh Tj = TOL	6.70 kW	6.89 kW
COP Tj = TOL	3.38	2.50
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

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

Annual energy consumption Q _{he}	1977 kWh	2694 kWh
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Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	135 %	101 %
Prated	9.00 kW	9.00 kW
SCOP	3.45	2.60
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-13 °C
P _{dh} T _j = -7°C	5.57 kW	5.31 kW
COP T _j = -7°C	3.14	2.52
P _{dh} T _j = +2°C	3.45 kW	3.28 kW
COP T _j = +2°C	4.51	3.50
P _{dh} T _j = +7°C	2.89 kW	2.78 kW
COP T _j = +7°C	5.78	4.56
P _{dh} T _j = 12°C	3.34 kW	3.23 kW

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

COP Tj = 12°C	6.96	5.59
Pdh Tj = Tbiv	5.57 kW	5.31 kW
COP Tj = Tbiv	3.14	2.52
Pdh Tj = TOL	4.36 kW	2.58 kW
COP Tj = TOL	2.55	2.09
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	9.25 kW	8.76 kW
Annual energy consumption Qhe	6605 kWh	8311 kWh

Model: LWZ 5 CS Premium

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.40 kW	3.84 kW
El input	0.93 kW	1.44 kW
COP	4.74	2.66
Indoor water flow rate	0.77 m ³ /h	0.42 m ³ /h

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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	165 %	129 %
Prated	6.00 kW	6.00 kW
SCOP	4.21	3.29
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.48 kW	5.54 kW
COP Tj = -7°C	2.93	2.26
Pdh Tj = +2°C	3.28 kW	3.41 kW
COP Tj = +2°C	4.18	3.27
Pdh Tj = +7°C	2.86 kW	2.71 kW
COP Tj = +7°C	5.43	4.09
Pdh Tj = 12°C	3.34 kW	3.19 kW
COP Tj = 12°C	6.96	5.26
Pdh Tj = Tbiv	5.48 kW	5.54 kW
COP Tj = Tbiv	2.93	2.26

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

Pdh Tj = TOL	5.47 kW	2.67 kW
COP Tj = TOL	2.82	1.88
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.75 kW	3.55 kW
Annual energy consumption Qhe	3052 kWh	3910 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	207 %	149 %
Prated	7.00 kW	7.00 kW

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

SCOP	5.25	3.80
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.70 kW	6.89 kW
COP Tj = +2°C	3.38	2.50
Pdh Tj = +7°C	4.31 kW	4.47 kW
COP Tj = +7°C	4.81	3.28
Pdh Tj = 12°C	3.32 kW	3.16 kW
COP Tj = 12°C	6.73	4.98
Pdh Tj = Tbiv	6.70 kW	6.89 kW
COP Tj = Tbiv	3.38	2.50
Pdh Tj = TOL	6.70 kW	6.89 kW
COP Tj = TOL	3.38	2.50
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

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

Annual energy consumption Q _{he}	1704 kWh	2420 kWh
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Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	138 %	103 %
Prated	9.00 kW	9.00 kW
SCOP	3.53	2.64
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-13 °C
P _{dh} T _j = -7°C	5.57 kW	5.31 kW
COP T _j = -7°C	3.14	2.52
P _{dh} T _j = +2°C	3.45 kW	3.28 kW
COP T _j = +2°C	4.51	3.50
P _{dh} T _j = +7°C	2.89 kW	2.78 kW
COP T _j = +7°C	5.78	4.56
P _{dh} T _j = 12°C	3.34 kW	3.23 kW

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

COP Tj = 12°C	6.96	5.59
Pdh Tj = Tbiv	5.57 kW	5.31 kW
COP Tj = Tbiv	3.14	2.52
Pdh Tj = TOL	4.36 kW	2.58 kW
COP Tj = TOL	2.55	2.09
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	9.25 kW	8.76 kW
Annual energy consumption Qhe	6468 kWh	8174 kWh

Model: LWZ 5 CS Premium DHW

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Medium temperature
Heat output	3.84 kW
El input	1.44 kW
COP	2.66
Indoor water flow rate	0.42 m ³ /h

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

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

EN 12102-1

	Medium temperature
Sound power level indoor	52 dB(A)

EN 14825

	Medium temperature
η_s	121 %
Prated	6.00 kW
SCOP	3.11
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	5.54 kW
COP Tj = -7°C	2.26
Pdh Tj = +2°C	3.41 kW
COP Tj = +2°C	3.27
Pdh Tj = +7°C	2.71 kW
COP Tj = +7°C	4.09
Pdh Tj = 12°C	3.19 kW
COP Tj = 12°C	5.29
Pdh Tj = Tbiv	5.54 kW
COP Tj = Tbiv	2.26

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

Pdh Tj = TOL	2.67 kW
COP Tj = TOL	1.88
Cdh	0.98
WTOL	60 °C
Poff	27 W
PTO	63 W
PSB	27 W
PCK	35 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	3.55 kW
Annual energy consumption Qhe	4138 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
COP	2.70
Heating up time	02:06 h:min
Standby power input	132.0 W
Reference hot water temperature	57.0 °C
Mixed water at 40°C	352 l
Efficiency η_{DHW}	111 %

Model: LWZ 504 E

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.40 kW	3.84 kW
El input	0.93 kW	1.44 kW
COP	4.74	2.66
Indoor water flow rate	0.77 m ³ /h	0.42 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	52 dB(A)	52 dB(A)
Sound power level outdoor	55 dB(A)	50 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	163 %	128 %
Prated	10.00 kW	7.00 kW
SCOP	4.14	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.42 kW	5.87 kW
COP Tj = -7°C	2.76	2.26
Pdh Tj = +2°C	5.12 kW	3.52 kW
COP Tj = +2°C	3.94	3.27
Pdh Tj = +7°C	3.26 kW	2.72 kW
COP Tj = +7°C	5.53	4.14
Pdh Tj = 12°C	3.35 kW	3.20 kW
COP Tj = 12°C	7.09	5.29
Pdh Tj = Tbiv	8.42 kW	5.87 kW

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

COP Tj = Tbiv	2.76	2.26
Pdh Tj = TOL	8.37 kW	2.67 kW
COP Tj = TOL	2.69	1.88
Rated airflow rate	0 m³/h	0 m³/h
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.15 kW	3.97 kW
Annual energy consumption Qhe	4755 kWh	4199 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)
Sound power level outdoor	55 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature

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

η_s	207 %	150 %
Prated	9.00 kW	8.00 kW
SCOP	5.24	3.82
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = -7°C	0.00 kW	0.00 kW
COP Tj = -7°C	0.00	0.00
Pdh Tj = +2°C	8.81 kW	8.32 kW
COP Tj = +2°C	3.18	2.34
Pdh Tj = +7°C	5.77 kW	5.41 kW
COP Tj = +7°C	4.57	3.26
Pdh Tj = 12°C	3.34 kW	3.17 kW
COP Tj = 12°C	6.89	5.11
Pdh Tj = Tbiv	8.81 kW	8.32 kW
COP Tj = Tbiv	3.18	2.34
Pdh Tj = TOL	8.81 kW	8.32 kW
COP Tj = TOL	3.18	2.34
Rated airflow rate	0 m³/h	0 m³/h
Cdh	0.98	0.98
WTOL	60 °C	60 °C

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

Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2243 kWh	2911 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)
Sound power level outdoor	55 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	131 %	102 %
Prated	14.00 kW	11.00 kW
SCOP	3.34	2.62
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-13 °C

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

Pdh Tj = -7°C	8.62 kW	6.38 kW
COP Tj = -7°C	2.96	2.50
Pdh Tj = +2°C	5.28 kW	3.92 kW
COP Tj = +2°C	4.20	3.48
Pdh Tj = +7°C	3.42 kW	2.79 kW
COP Tj = +7°C	5.87	4.68
Pdh Tj = 12°C	3.35 kW	3.24 kW
COP Tj = 12°C	7.12	5.67
Pdh Tj = Tbiv	8.62 kW	6.38 kW
COP Tj = Tbiv	2.56	2.50
Pdh Tj = TOL	5.73 kW	2.58 kW
COP Tj = TOL	2.56	6.38
Rated airflow rate	0 m³/h	0 m³/h
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	14.24 kW	10.57 kW

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

Annual energy consumption Q _{he}	10498 kWh	9932 kWh
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Model: LWZ 504 E DHW

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2

	Medium temperature
Heat output	3.84 kW
El input	1.44 kW
COP	2.66
Indoor water flow rate	0.42 m ³ /h

Average Climate

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

EN 12102-1

	Medium temperature
Sound power level indoor	52 dB(A)
Sound power level outdoor	50 dB(A)

EN 14825

	Medium temperature
η_s	128 %
Prated	7.00 kW
SCOP	3.27
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	5.87 kW
COP Tj = -7°C	2.26
Pdh Tj = +2°C	3.52 kW
COP Tj = +2°C	3.27
Pdh Tj = +7°C	2.72 kW
COP Tj = +7°C	4.14
Pdh Tj = 12°C	3.20 kW
COP Tj = 12°C	5.29
Pdh Tj = Tbiv	5.87 kW

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

COP $T_j = T_{biv}$	2.26
P _{dh} $T_j = TOL$	2.67 kW
COP $T_j = TOL$	1.88
Rated airflow rate	0 m ³ /h
C _{dh}	0.98
WTOL	60 °C
P _{off}	27 W
PTO	63 W
PSB	27 W
PCK	35 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	3.97 kW
Annual energy consumption Q _{he}	4199 kWh

Warmer Climate

Colder Climate

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
COP	2.70
Heating up time	02:06 h:min
Standby power input	132.0 W
Reference hot water temperature	57.0 °C
Mixed water at 40°C	352 l
Efficiency η_{DHW}	111 %

Warmer Climate

EN 16147	
Declared load profile	1
Efficiency η_{DHW}	1 %
COP	1.00
Heating up time	1 h:min
Standby power input	1 W
Reference hot water temperature	1.00 °C
Mixed water at 40°C	1 l

Colder Climate

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

EN 16147	
Declared load profile	1
Efficiency η_{DHW}	1 %
COP	1.00
Heating up time	1 h:min
Standby power input	1 W
Reference hot water temperature	1.00 °C
Mixed water at 40°C	1 l

Model: LWZ 5 S smart DHW

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Medium temperature
Heat output	3.84 kW
El input	1.44 kW
COP	2.66
Indoor water flow rate	0.42 m ³ /h

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

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

EN 12102-1

	Medium temperature
Sound power level indoor	52 dB(A)

EN 14825

	Medium temperature
η_s	121 %
Prated	6.00 kW
SCOP	3.11
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	5.54 kW
COP Tj = -7°C	2.26
Pdh Tj = +2°C	3.41 kW
COP Tj = +2°C	3.27
Pdh Tj = +7°C	2.71 kW
COP Tj = +7°C	4.09
Pdh Tj = 12°C	3.19 kW
COP Tj = 12°C	5.29
Pdh Tj = Tbiv	5.54 kW
COP Tj = Tbiv	2.26

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

Pdh Tj = TOL	2.67 kW
COP Tj = TOL	1.88
Cdh	0.98
WTOL	60 °C
Poff	27 W
PTO	63 W
PSB	27 W
PCK	35 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	3.55 kW
Annual energy consumption Qhe	4138 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
COP	2.70
Heating up time	02:06 h:min
Standby power input	132.0 W
Reference hot water temperature	57.0 °C
Mixed water at 40°C	352 l
Efficiency η_{DHW}	111 %

Model: LWZ 5 S Plus DHW

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Medium temperature
Heat output	3.84 kW
El input	1.44 kW
COP	2.66
Indoor water flow rate	0.42 m ³ /h

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

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

EN 12102-1

	Medium temperature
Sound power level indoor	52 dB(A)

EN 14825

	Medium temperature
η_s	121 %
Prated	6.00 kW
SCOP	3.11
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	5.54 kW
COP Tj = -7°C	2.26
Pdh Tj = +2°C	3.41 kW
COP Tj = +2°C	3.27
Pdh Tj = +7°C	2.71 kW
COP Tj = +7°C	4.09
Pdh Tj = 12°C	3.19 kW
COP Tj = 12°C	5.29
Pdh Tj = Tbiv	5.54 kW
COP Tj = Tbiv	2.26

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

Pdh Tj = TOL	2.67 kW
COP Tj = TOL	1.88
Cdh	0.98
WTOL	60 °C
Poff	27 W
PTO	63 W
PSB	27 W
PCK	35 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	3.55 kW
Annual energy consumption Qhe	4138 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
COP	2.70
Heating up time	02:06 h:min
Standby power input	132.0 W
Reference hot water temperature	57.0 °C
Mixed water at 40°C	352 l
Efficiency η_{DHW}	111 %