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Summary of	Buderus Logatherm WLW196i-14 AR and IR	Reg. No.	011-1W0131
Certificate Holder			
Name	Bosch Thermotechnik GmbH (Buderus)		
Address	Sophienstraße 30-32	Zip	35576
City	Wetzlar	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	RISE Research Institutes of Sweden AB		
Subtype title	Buderus Logatherm WLW196i-14 AR and IR		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	4 kg		
Certification Date	18.07.2017		

Model: Buderus Logatherm WLW196i-14 ARE

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	5.63 kW	4.32 kW
El input	1.16 kW	1.63 kW
COP	4.87	2.64
Indoor water flow rate	0.26 m³/h	0.13 m³/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

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	191 %	142 %
Prated	12.00 kW	10.00 kW
SCOP	4.85	3.61
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.36 kW	9.51 kW
COP Tj = -7°C	2.87	2.25
Pdh Tj = +2°C	6.84 kW	5.60 kW
COP Tj = +2°C	4.84	3.64
Pdh Tj = +7°C	4.21 kW	5.07 kW
COP Tj = +7°C	6.41	4.49
Pdh Tj = 12°C	3.03 kW	6.01 kW
COP Tj = 12°C	7.31	5.79
Pdh Tj = Tbiv	12.26 kW	10.11 kW

COP Tj = Tbiv	2.43	1.90
Pdh Tj = TOL	12.26 kW	10.11 kW
COP Tj = TOL	2.43	1.90
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	17 W	17 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	5113 kWh	5716 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	**Medium temperature**

η_s	161 %	123 %
Prated	10.00 kW	9.10 kW
SCOP	4.11	3.15
Tbiv	-19 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	6.20 kW	5.60 kW
COP Tj = -7°C	3.71	2.68
Pdh Tj = +2°C	4.91 kW	4.40 kW
COP Tj = +2°C	4.64	3.86
Pdh Tj = +7°C	5.34 kW	5.07 kW
COP Tj = +7°C	6.14	4.76
Pdh Tj = 12°C	6.28 kW	6.00 kW
COP Tj = 12°C	7.41	6.23
Pdh Tj = Tbiv	9.25 kW	7.90 kW
COP Tj = Tbiv	2.21	1.75
Pdh Tj = TOL	9.00 kW	7.47 kW
COP Tj = TOL	2.16	1.65
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	17 W	17 W
PSB	24 W	24 W

PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	10.00 kW	9.10 kW
Annual energy consumption Qhe	5997 kWh	7114 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	244 %	171 %
Prated	14.30 kW	12.50 kW
SCOP	6.17	4.36
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	14.59 kW	12.49 kW
COP Tj = +2°C	2.85	2.18
Pdh Tj = +7°C	8.92 kW	8.08 kW

COP Tj = +7°C	5.37	3.81
Pdh Tj = 12°C	4.16 kW	5.99 kW
COP Tj = 12°C	8.00	5.61
Pdh Tj = Tbiv	14.59 kW	12.49 kW
COP Tj = Tbiv	2.85	2.18
Pdh Tj = TOL	14.59 kW	12.49 kW
COP Tj = TOL	2.85	2.18
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	17 W	17 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	3097 kWh	3833 kWh

Model: Buderus Logatherm WLW196i-14 ARB

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	5.63 kW	4.32 kW
El input	1.16 kW	1.63 kW
COP	4.87	2.64
Indoor water flow rate	0.26 m³/h	0.13 m³/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

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	191 %	142 %
Prated	12.00 kW	10.00 kW
SCOP	4.85	3.61
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.36 kW	9.51 kW
COP Tj = -7°C	2.87	2.25
Pdh Tj = +2°C	6.84 kW	5.60 kW
COP Tj = +2°C	4.84	3.64
Pdh Tj = +7°C	4.21 kW	5.07 kW
COP Tj = +7°C	6.41	4.49
Pdh Tj = 12°C	3.03 kW	6.01 kW
COP Tj = 12°C	7.31	5.79
Pdh Tj = Tbiv	12.26 kW	10.11 kW

COP Tj = Tbiv	2.43	1.90
Pdh Tj = TOL	12.26 kW	10.11 kW
COP Tj = TOL	2.43	1.90
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	17 W	17 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	5113 kWh	5716 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	**Medium temperature**

η_s	161 %	123 %
Prated	10.00 kW	9.10 kW
SCOP	4.11	3.15
Tbiv	-19 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	6.20 kW	5.60 kW
COP Tj = -7°C	3.71	2.68
Pdh Tj = +2°C	4.91 kW	4.40 kW
COP Tj = +2°C	4.64	3.86
Pdh Tj = +7°C	5.34 kW	5.07 kW
COP Tj = +7°C	6.14	4.76
Pdh Tj = 12°C	6.28 kW	6.00 kW
COP Tj = 12°C	7.41	6.23
Pdh Tj = Tbiv	9.25 kW	7.90 kW
COP Tj = Tbiv	2.21	1.75
Pdh Tj = TOL	9.00 kW	7.47 kW
COP Tj = TOL	2.16	1.65
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	17 W	17 W
PSB	24 W	24 W

PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	10.00 kW	9.10 kW
Annual energy consumption Qhe	5997 kWh	7114 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	244 %	171 %
Prated	14.30 kW	12.50 kW
SCOP	6.17	4.36
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	14.59 kW	12.49 kW
COP Tj = +2°C	2.85	2.18
Pdh Tj = +7°C	8.92 kW	8.08 kW

COP Tj = +7°C	5.37	3.81
Pdh Tj = 12°C	4.16 kW	5.99 kW
COP Tj = 12°C	8.00	5.61
Pdh Tj = Tbiv	14.59 kW	12.49 kW
COP Tj = Tbiv	2.85	2.18
Pdh Tj = TOL	14.59 kW	12.49 kW
COP Tj = TOL	2.85	2.18
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	17 W	17 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	3097 kWh	3833 kWh

Model: Buderus Logatherm WLW196i-14 ART

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	5.63 kW	4.32 kW
El input	1.16 kW	1.63 kW
COP	4.87	2.64
Indoor water flow rate	0.26 m³/h	0.13 m³/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

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	26 dB(A)	26 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	191 %	142 %
Prated	12.00 kW	10.00 kW
SCOP	4.85	3.61
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.36 kW	9.51 kW
COP Tj = -7°C	2.87	2.25
Pdh Tj = +2°C	6.84 kW	5.60 kW
COP Tj = +2°C	4.84	3.64
Pdh Tj = +7°C	4.21 kW	5.07 kW
COP Tj = +7°C	6.41	4.49
Pdh Tj = 12°C	3.03 kW	6.01 kW
COP Tj = 12°C	7.31	5.79
Pdh Tj = Tbiv	12.26 kW	10.11 kW

COP Tj = Tbiv	2.43	1.90
Pdh Tj = TOL	12.26 kW	10.11 kW
COP Tj = TOL	2.43	1.90
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	17 W	17 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	5113 kWh	5716 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	26 dB(A)	26 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	**Medium temperature**

η_s	161 %	123 %
Prated	10.00 kW	9.10 kW
SCOP	4.11	3.15
Tbiv	-19 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	6.20 kW	5.60 kW
COP Tj = -7°C	3.71	2.68
Pdh Tj = +2°C	4.91 kW	4.40 kW
COP Tj = +2°C	4.64	3.86
Pdh Tj = +7°C	5.34 kW	5.07 kW
COP Tj = +7°C	6.14	4.76
Pdh Tj = 12°C	6.28 kW	6.00 kW
COP Tj = 12°C	7.41	6.23
Pdh Tj = Tbiv	9.25 kW	7.90 kW
COP Tj = Tbiv	2.21	1.75
Pdh Tj = TOL	9.00 kW	7.47 kW
COP Tj = TOL	2.16	1.65
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	17 W	17 W
PSB	24 W	24 W

PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	10.00 kW	9.10 kW
Annual energy consumption Qhe	5997 kWh	7114 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	26 dB(A)	26 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	244 %	171 %
Prated	14.30 kW	12.50 kW
SCOP	6.17	4.36
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	14.59 kW	12.49 kW
COP Tj = +2°C	2.85	2.18
Pdh Tj = +7°C	8.92 kW	8.08 kW

COP Tj = +7°C	5.37	3.81
Pdh Tj = 12°C	4.16 kW	5.99 kW
COP Tj = 12°C	8.00	5.61
Pdh Tj = Tbiv	14.59 kW	12.49 kW
COP Tj = Tbiv	2.85	2.18
Pdh Tj = TOL	14.59 kW	12.49 kW
COP Tj = TOL	2.85	2.18
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	17 W	17 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	3097 kWh	3833 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	91 %
COP	2.12
Heating up time	02:24 h:min
Standby power input	64.3 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	269 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	78 %
COP	1.82
Heating up time	02:48 h:min
Standby power input	80.7 W
Reference hot water temperature	53.5 °C
Mixed water at 40°C	272 l

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	107 %
COP	2.49
Heating up time	01:57 h:min
Standby power input	58.5 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	266 l

Model: Buderus Logatherm WLW196i-14 ARTS

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	5.63 kW	4.32 kW
El input	1.16 kW	1.63 kW
COP	4.87	2.64
Indoor water flow rate	0.26 m³/h	0.13 m³/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

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	26 dB(A)	26 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	191 %	142 %
Prated	12.00 kW	10.00 kW
SCOP	4.85	3.61
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.36 kW	9.51 kW
COP Tj = -7°C	2.87	2.25
Pdh Tj = +2°C	6.84 kW	5.60 kW
COP Tj = +2°C	4.84	3.64
Pdh Tj = +7°C	4.21 kW	5.07 kW
COP Tj = +7°C	6.41	4.49
Pdh Tj = 12°C	3.03 kW	6.01 kW
COP Tj = 12°C	7.31	5.79
Pdh Tj = Tbiv	12.26 kW	10.11 kW

COP Tj = Tbiv	2.43	1.90
Pdh Tj = TOL	12.26 kW	10.11 kW
COP Tj = TOL	2.43	1.90
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	17 W	17 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	5113 kWh	5716 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	26 dB(A)	26 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	**Medium temperature**

η_s	161 %	123 %
Prated	10.00 kW	9.10 kW
SCOP	4.11	3.15
Tbiv	-19 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	6.20 kW	5.60 kW
COP Tj = -7°C	3.71	2.68
Pdh Tj = +2°C	4.91 kW	4.40 kW
COP Tj = +2°C	4.64	3.86
Pdh Tj = +7°C	5.34 kW	5.07 kW
COP Tj = +7°C	6.14	4.76
Pdh Tj = 12°C	6.28 kW	6.00 kW
COP Tj = 12°C	7.41	6.23
Pdh Tj = Tbiv	9.25 kW	7.90 kW
COP Tj = Tbiv	2.21	1.75
Pdh Tj = TOL	9.00 kW	7.47 kW
COP Tj = TOL	2.16	1.65
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	17 W	17 W
PSB	24 W	24 W

PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	10.00 kW	9.10 kW
Annual energy consumption Qhe	5997 kWh	7114 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	26 dB(A)	26 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	244 %	171 %
Prated	14.30 kW	12.50 kW
SCOP	6.17	4.36
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	14.59 kW	12.49 kW
COP Tj = +2°C	2.85	2.18
Pdh Tj = +7°C	8.92 kW	8.08 kW

COP Tj = +7°C	5.37	3.81
Pdh Tj = 12°C	4.16 kW	5.99 kW
COP Tj = 12°C	8.00	5.61
Pdh Tj = Tbiv	14.59 kW	12.49 kW
COP Tj = Tbiv	2.85	2.18
Pdh Tj = TOL	14.59 kW	12.49 kW
COP Tj = TOL	2.85	2.18
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	17 W	17 W
PSB	24 W	24 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	3097 kWh	3833 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	89 %
COP	2.08
Heating up time	02:27 h:min
Standby power input	67.1 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	259 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	77 %
COP	1.78
Heating up time	02:51 h:min
Standby power input	91.7 W
Reference hot water temperature	52.3 °C
Mixed water at 40°C	258 l

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	99 %
COP	2.30
Heating up time	01:59 h:min
Standby power input	61.0 W
Reference hot water temperature	51.4 °C
Mixed water at 40°C	252 l

Model: Buderus Logatherm WLW196i-14 IRE

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.80 kW	4.22 kW
El input	1.00 kW	1.64 kW
COP	4.82	2.58
Indoor water flow rate	1.05 m³/h	0.46 m³/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

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	49 dB(A)	49 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	197 %	145 %
Prated	11.00 kW	10.00 kW
SCOP	5.00	3.70
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.40 kW	9.00 kW
COP Tj = -7°C	3.01	2.21
Pdh Tj = +2°C	6.50 kW	5.50 kW
COP Tj = +2°C	4.86	3.57
Pdh Tj = +7°C	4.20 kW	5.00 kW
COP Tj = +7°C	6.53	4.88
Pdh Tj = 12°C	3.20 kW	6.10 kW
COP Tj = 12°C	8.93	7.32
Pdh Tj = Tbiv	12.00 kW	10.10 kW
COP Tj = Tbiv	2.51	1.86

Pdh Tj = TOL	8.20 kW	7.30 kW
COP Tj = TOL	1.51	1.55
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	35 W	35 W
PTO	21 W	21 W
PSB	35 W	35 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5198 kWh	5869 kWh

Model: Buderus Logatherm WLW196i-14 IRB

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.80 kW	4.22 kW
El input	1.00 kW	1.64 kW
COP	4.82	2.58
Indoor water flow rate	1.05 m³/h	0.46 m³/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

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	49 dB(A)	49 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	197 %	145 %
Prated	11.00 kW	10.00 kW
SCOP	5.00	3.70
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.40 kW	9.00 kW
COP Tj = -7°C	3.01	2.21
Pdh Tj = +2°C	6.50 kW	5.50 kW
COP Tj = +2°C	4.86	3.57
Pdh Tj = +7°C	4.20 kW	5.00 kW
COP Tj = +7°C	6.53	4.88
Pdh Tj = 12°C	3.20 kW	6.10 kW
COP Tj = 12°C	8.93	7.32
Pdh Tj = Tbiv	12.00 kW	10.10 kW
COP Tj = Tbiv	2.51	1.86

Pdh Tj = TOL	8.20 kW	7.30 kW
COP Tj = TOL	1.51	1.55
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	35 W	35 W
PTO	21 W	21 W
PSB	35 W	35 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5198 kWh	5869 kWh

Model: Buderus Logatherm WLW196i-14 IRT

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.80 kW	4.22 kW
El input	1.00 kW	1.64 kW
COP	4.82	2.58
Indoor water flow rate	1.05 m³/h	0.46 m³/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

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	49 dB(A)	49 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	197 %	145 %
Prated	11.00 kW	10.00 kW
SCOP	5.00	3.70
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.40 kW	9.00 kW
COP Tj = -7°C	3.01	2.21
Pdh Tj = +2°C	6.50 kW	5.50 kW
COP Tj = +2°C	4.86	3.57
Pdh Tj = +7°C	4.20 kW	5.00 kW
COP Tj = +7°C	6.53	4.88
Pdh Tj = 12°C	3.20 kW	6.10 kW
COP Tj = 12°C	8.93	7.32
Pdh Tj = Tbiv	12.00 kW	10.10 kW
COP Tj = Tbiv	2.51	1.86

Pdh Tj = TOL	8.20 kW	7.30 kW
COP Tj = TOL	1.51	1.55
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	35 W	35 W
PTO	21 W	21 W
PSB	35 W	35 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5198 kWh	5869 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	89 %
COP	2.19
Heating up time	02:18 h:min
Standby power input	67.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	310 l

Model: Buderus Logatherm WLW196i-14 IRTS

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.80 kW	4.22 kW
El input	1.00 kW	1.64 kW
COP	4.82	2.58
Indoor water flow rate	1.05 m³/h	0.46 m³/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

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	49 dB(A)	49 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	197 %	145 %
Prated	11.00 kW	10.00 kW
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Tbiv	-10 °C	-10 °C
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COP Tj = +2°C	4.86	3.57
Pdh Tj = +7°C	4.20 kW	5.00 kW
COP Tj = +7°C	6.53	4.88
Pdh Tj = 12°C	3.20 kW	6.10 kW
COP Tj = 12°C	8.93	7.32
Pdh Tj = Tbiv	12.00 kW	10.10 kW
COP Tj = Tbiv	2.51	1.86

Pdh Tj = TOL	8.20 kW	7.30 kW
COP Tj = TOL	1.51	1.55
Cdh	1.00	1.00
WTOL	60 °C	60 °C
Poff	35 W	35 W
PTO	21 W	21 W
PSB	35 W	35 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5198 kWh	5869 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	89 %
COP	2.19
Heating up time	02:18 h:min
Standby power input	67.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	310 l