

Summary of	Buderus Logatherm WPLS.11/13/15.2	Reg. No.	011-1W0143
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 WPLS.11/13/15.2		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.3 kg		
Certification Date	26.09.2017		



# Model: Buderus Logatherm WPLS15.2 RE

General Data	
Power supply	3x400V 50Hz

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.65 kW	8.36 kW
El input	2.19 kW	3.06 kW
СОР	4.41	2.73
Indoor water flow rate	1.64 m³/h	0.92 m³/h

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 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	153 %	123 %
Prated	13.00 kW	11.00 kW
SCOP	3.90	3.15
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	11.10 kW	9.30 kW
COP Tj = -7°C	2.71	2.11
Pdh Tj = +2°C	6.70 kW	6.00 kW
COP Tj = +2°C	3.71	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.31
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01
Pdh Tj = Tbiv	12.50 kW	10.50 kW



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COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	12.50 kW	10.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6612 kWh	6942 kWh



# Model: Buderus Logatherm WPLS13.2 RTS

General Data	
Power supply	3x400V 50Hz

# Heating

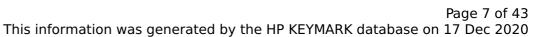
EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.21 kW	8.02 kW
El input	2.09 kW	2.96 kW
СОР	4.40	2.70
Indoor water flow rate	1.57 m³/h	0.88 m³/h

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 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

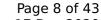
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	153 %	121 %
Prated	11.00 kW	10.00 kW
SCOP	3.90	3.10
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	9.90 kW	8.40 kW
COP Tj = -7°C	2.71	2.11
Pdh Tj = +2°C	6.00 kW	6.00 kW
COP Tj = +2°C	3.72	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.31
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01
Pdh Tj = Tbiv	11.20 kW	9.50 kW





COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	11.20 kW	9.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5949 kWh	6356 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	71 %
СОР	1.68
Heating up time	3:20 h:min
Standby power input	60.0 W
Reference hot water temperature	56.4 °C
Mixed water at 40°C	304 I



# Model: Buderus Logatherm WPLS13.2 RT

General Data	
Power supply	3x400V 50Hz

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.21 kW	8.02 kW
El input	2.09 kW	2.96 kW
СОР	4.40	2.70
Indoor water flow rate	1.57 m³/h	0.88 m³/h

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



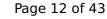
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	153 %	121 %	
Prated	11.00 kW	10.00 kW	
SCOP	3.90	3.10	
Tbiv	-10 °C	-10 °C	
TOL	-15 °C	-15 °C	
Pdh Tj = -7°C	9.90 kW	8.40 kW	
COP Tj = -7°C	2.71	2.11	
Pdh Tj = +2°C	6.00 kW	6.00 kW	
COP Tj = +2°C	3.72	3.11	
Pdh Tj = +7°C	6.50 kW	6.00 kW	
COP Tj = +7°C	5.71	4.31	
Pdh Tj = 12°C	6.50 kW	6.00 kW	
COP Tj = 12°C	5.71	5.01	
Pdh Tj = Tbiv	11.20 kW	9.50 kW	



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COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	11.20 kW	9.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5949 kWh	6356 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	71 %
СОР	1.68
Heating up time	3:20 h:min
Standby power input	60.0 W
Reference hot water temperature	56.4 °C
Mixed water at 40°C	304



# Model: Buderus Logatherm WPLS13.2 RB

General Data	
Power supply	3x400V 50Hz

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.21 kW	8.02 kW
El input	2.09 kW	2.96 kW
СОР	4.40	2.70
Indoor water flow rate	1.57 m³/h	0.88 m³/h

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 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	153 %	121 %
Prated	11.00 kW	10.00 kW
SCOP	3.90	3.10
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	9.90 kW	8.40 kW
COP Tj = -7°C	2.71	2.11
Pdh Tj = +2°C	6.00 kW	6.00 kW
COP Tj = +2°C	3.72	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.31
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01
Pdh Tj = Tbiv	11.20 kW	9.50 kW



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COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	11.20 kW	9.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5949 kWh	6356 kWh



# Model: Buderus Logatherm WPLS13.2 RE

General Data	
Power supply	3x400V 50Hz

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.21 kW	8.02 kW
El input	2.09 kW	2.96 kW
СОР	4.40	2.70
Indoor water flow rate	1.57 m³/h	0.88 m³/h

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	



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	153 %	121 %
Prated	11.00 kW	10.00 kW
SCOP	3.90	3.10
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	9.90 kW	8.40 kW
COP Tj = -7°C	2.71	2.11
Pdh Tj = +2°C	6.00 kW	6.00 kW
COP Tj = +2°C	3.72	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.31
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01
Pdh Tj = Tbiv	11.20 kW	9.50 kW



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COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	11.20 kW	9.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5949 kWh	6356 kWh

# **Model: Buderus Logatherm WPLS11.2 RTS**

General Data	
Power supply	3x400V 50Hz

# Heating

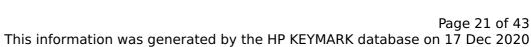
EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.60 kW	7.50 kW
El input	1.95 kW	2.78 kW
СОР	4.40	2.70
Indoor water flow rate	1.47 m³/h	0.83 m³/h

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 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

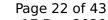
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	152 %	119 %
Prated	10.00 kW	9.00 kW
SCOP	3.88	3.05
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	8.80 kW	7.50 kW
COP Tj = -7°C	2.71	2.10
Pdh Tj = +2°C	5.90 kW	6.00 kW
COP Tj = +2°C	3.81	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.30
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01
Pdh Tj = Tbiv	10.00 kW	8.50 kW



COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	10.00 kW	8.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5324 kWh	5770 kWh

Domestic Hot Water (DHW)

CEN heat pump KEYMARK





EN 16147	
Declared load profile	L
Efficiency ηDHW	71 %
СОР	1.68
Heating up time	3:20 h:min
Standby power input	60.0 W
Reference hot water temperature	56.4 °C
Mixed water at 40°C	304

# Model: Buderus Logatherm WPLS11.2 RT

General Data	
Power supply	3x400V 50Hz

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.60 kW	7.50 kW
El input	1.95 kW	2.78 kW
СОР	4.40	2.70
Indoor water flow rate	1.47 m³/h	0.83 m³/h

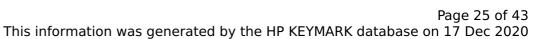
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

CEN heat pump KEYMARK

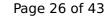
	EN 14825		
	Low temperature	Medium temperature	
$\eta_{s}$	152 %	119 %	
Prated	10.00 kW	9.00 kW	
SCOP	3.88	3.05	
Tbiv	-10 °C	-10 °C	
TOL	-15 °C	-15 °C	
Pdh Tj = -7°C	8.80 kW	7.50 kW	
COP Tj = -7°C	2.71	2.10	
Pdh Tj = +2°C	5.90 kW	6.00 kW	
COP Tj = +2°C	3.81	3.11	
Pdh Tj = +7°C	6.50 kW	6.00 kW	
COP Tj = +7°C	5.71	4.30	
Pdh Tj = 12°C	6.50 kW	6.00 kW	
COP Tj = 12°C	5.71	5.01	
Pdh Tj = Tbiv	10.00 kW	8.50 kW	





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COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	10.00 kW	8.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
PTO	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5324 kWh	5770 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	71 %
СОР	1.68
Heating up time	3:20 h:min
Standby power input	60.0 W
Reference hot water temperature	56.4 °C
Mixed water at 40°C	304

# Model: Buderus Logatherm WPLS11.2 RB

General Data	
Power supply	3x400V 50Hz

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.60 kW	7.50 kW	
El input	1.95 kW	2.78 kW	
СОР	4.40	2.70	
Indoor water flow rate	1.47 m³/h	0.83 m³/h	

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 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	152 %	119 %
Prated	10.00 kW	9.00 kW
SCOP	3.88	3.05
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	8.80 kW	7.50 kW
COP Tj = -7°C	2.71	2.10
Pdh Tj = +2°C	5.90 kW	6.00 kW
COP Tj = +2°C	3.81	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.30
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01
Pdh Tj = Tbiv	10.00 kW	8.50 kW



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COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	10.00 kW	8.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5324 kWh	5770 kWh

# Model: Buderus Logatherm WPLS15.2 RTS

General Data	
Power supply	3x400V 50Hz

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	9.65 kW	8.36 kW	
El input	2.19 kW	3.06 kW	
СОР	4.41	2.73	
Indoor water flow rate	1.64 m³/h	0.92 m³/h	

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 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	153 %	123 %
Prated	13.00 kW	11.00 kW
SCOP	3.90	3.15
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	11.10 kW	9.30 kW
COP Tj = -7°C	2.71	2.11
Pdh Tj = +2°C	6.70 kW	6.00 kW
COP Tj = +2°C	3.71	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.31
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01
Pdh Tj = Tbiv	12.50 kW	10.50 kW

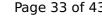


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### This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	12.50 kW	10.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6612 kWh	6942 kWh

Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\xspace$ 33 of 43 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	L	
Efficiency ηDHW	71 %	
СОР	1.68	
Heating up time	3:20 h:min	
Standby power input	60.0 W	
Reference hot water temperature	56.4 °C	
Mixed water at 40°C	304 I	



# Model: Buderus Logatherm WPLS15.2 RT

General Data	
Power supply	3x400V 50Hz

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.65 kW	8.36 kW
El input	2.19 kW	3.06 kW
СОР	4.41	2.73
Indoor water flow rate	1.64 m³/h	0.92 m³/h

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 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	153 %	123 %
Prated	13.00 kW	11.00 kW
SCOP	3.90	3.15
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	11.10 kW	9.30 kW
COP Tj = -7°C	2.71	2.11
Pdh Tj = +2°C	6.70 kW	6.00 kW
COP Tj = +2°C	3.71	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.31
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01
Pdh Tj = Tbiv	12.50 kW	10.50 kW

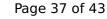


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### This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	12.50 kW	10.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6612 kWh	6942 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	71 %
СОР	1.68
Heating up time	3:20 h:min
Standby power input	60.0 W
Reference hot water temperature	56.4 °C
Mixed water at 40°C	304



# Model: Buderus Logatherm WPLS15.2 RB

General Data	
Power supply	3x400V 50Hz

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.65 kW	8.36 kW
El input	2.19 kW	3.06 kW
СОР	4.41	2.73
Indoor water flow rate	1.64 m³/h	0.92 m³/h

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 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	153 %	123 %
Prated	13.00 kW	11.00 kW
SCOP	3.90	3.15
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	11.10 kW	9.30 kW
COP Tj = -7°C	2.71	2.11
Pdh Tj = +2°C	6.70 kW	6.00 kW
COP Tj = +2°C	3.71	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.31
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01
Pdh Tj = Tbiv	12.50 kW	10.50 kW



	Teracea by the fill itziri	
COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	12.50 kW	10.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6612 kWh	6942 kWh



# Model: Buderus Logatherm WPLS11.2 RE

General Data	
Power supply	3x400V 50Hz

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.60 kW	7.50 kW	
El input	1.95 kW	2.78 kW	
СОР	4.40	2.70	
Indoor water flow rate	1.47 m³/h	0.83 m³/h	

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 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	152 %	119 %
Prated	10.00 kW	9.00 kW
SCOP	3.88	3.05
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	8.80 kW	7.50 kW
COP Tj = -7°C	2.71	2.10
Pdh Tj = +2°C	5.90 kW	6.00 kW
COP Tj = +2°C	3.81	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.30
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01
Pdh Tj = Tbiv	10.00 kW	8.50 kW



COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	10.00 kW	8.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5324 kWh	5770 kWh