

Home Comfort Group



BOSCH

Buderus Oil Boilers G115 & G215

Designed to extract and deliver
more heat from every fuel dollar



www.bosch-homecomfort.us



Comfortable, Efficient & Intelligent Heating.

Buderus G115 & G215

Keeping your home comfortable and warm is a high priority—but it doesn't have to come at a high cost. Whether you heat by baseboard, panel radiators, hydro-air systems or radiant flooring, our advanced heating systems will provide many years of exceptional comfort and savings. A conventional boiler heats and circulates water at only one temperature—typically 170° to 180°F until the thermostat signals it to stop. A Buderus boiler, especially when paired with the Logamatic control, eliminates these room temperature swings by adjusting the boiler water temperature to the current conditions, saving fuel while keeping you warm and comfortable.

Features

- ▶ Designed to operate at any return water temperature
- ▶ Full swing burner door for easy & quick, thorough cleaning
- ▶ No refractory parts for reduced maintenance
- ▶ Boiler fully serviced and cleaned from the front
- ▶ Cast iron breaching for long life
- ▶ Thermostream design increases efficiency & reliability
- ▶ High efficiency through full three-pass boiler design



The Three-Pass Boiler Design

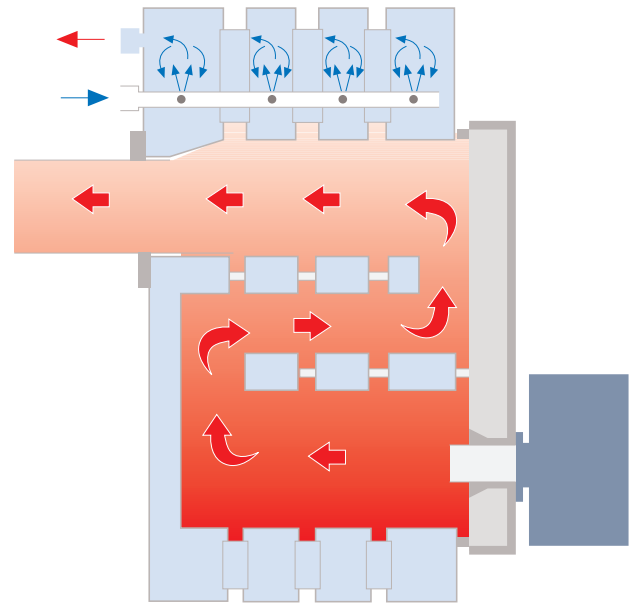
- ▶ Optimized combustion with positive pressure-fired boilers and tailored chamber geometry—no need for a heat-consuming refractory or target wall eliminating the need for costly repairs
- ▶ Minimal stack losses with the modified three-pass flue design's large heat transfer areas
- ▶ Low standby losses with a full 3½" to 4" jacket of thermal insulation around the entire block—even underneath the boiler

How It Works

The flame fires into the first chamber. Then the flue products flow through the second pass to the front of the boiler. From there they reverse direction again—moving through the third pass to the back, and finally exiting via the flue connection into the chimney. Because the gases are held in the boiler longer this allows the cast iron to absorb the maximum amount of heat, resulting in a lower stack temperature and a higher efficiency.

Putting Energy To Work

Buderus developed a full three-pass system which increases the efficiency of the boilers. With single-pass boilers, the flue products have only one chance to heat the water. Buderus three-pass boilers triple this opportunity. The unique way heat flows through the G115 and G215 boilers allows the water to be heated three separate times. The full 3" thick thermal insulation helps to maintain a higher water temperature even after the boiler has gone into standby mode.



Buderus G115

The Buderus G115WS boiler is based on the highly successful G115, the world's best selling boiler. The G115WS has been redesigned and reengineered to extract and deliver more heat from every fuel dollar, and now has higher outputs at less cost per BTU. Acknowledged as the leader in high-efficiency, low emission hydronic heating, Buderus offers innovative design and quality manufacturing.

A G115WS cast iron oil boiler is ideal for new installations or as a replacement for virtually any make or model of boiler. They are compatible with most hot water tanks. Constructed with superior materials and designed by the industry's leading engineers, the G115WS boiler is raising the standard for the industry. With two ETL approved venting options, either into a chimney or directly through the wall, the G115WS allows a wide range of installation possibilities.

Features

- ▶ Improved Efficiency - 87% AFUE
- ▶ Engineered to extract and deliver more heat from every fuel dollar
- ▶ Special compounds provide a gas-tight seal for safe and efficient operation
- ▶ Optimized combustion with positive pressure-fired boilers and tailored chamber geometry
- ▶ Minimal stack losses with the modified three-pass flue design's large heat transfer areas
- ▶ Low standby losses with a full 3" jacket of thermal insulation around the entire block—even underneath the boiler



Model	G115WS/3		G115WS/4		G115WS/5	
Performance Data	Chimney Vent	Direct Vent	Chimney Vent	Direct Vent	Chimney Vent	Direct Vent
Gross Output (BTU/Hr)	85,000	74,000	109,000	98,000	136,000	120,000
Net IBR (BTU/Hr)	74,000	64,000	95,000	85,000	119,000	104,000
Firing Rate (GPH)	0.70	0.60	0.90	0.80	1.10	1.0
AFUE (%)	87					
Number of Sections	3		4		5	
Piping Connections						
Vent Connection Size	5					
Supply, in	1 ^{1/4}					
Return, in	1					
Physical Dimensions						
Overall Boiler Length, in	23 ^{5/8}		28 ^{5/8}		33 ^{3/8}	
Boiler Block Length, in	21 ^{1/8}		25 ^{3/4}		30 ^{1/2}	
Minimum Boiler Block Width, in	18					
Boiler Width, in	23 ^{1/2}					
Minimum Boiler Height, in	33 ^{1/2}					
Boiler Height, in	34 ^{1/2}					
Boiler Feet Spacing, in	10 ^{3/8}		16 ^{1/8}		20 ^{7/8}	
Fire Box Depth, in	16		20 ^{1/2}		25 ^{1/4}	
Fire Box Volume (cu. ft.)	1.20		1.75		2.21	
Dry Weight (lbs.)	330		403		476	
Approx. Water Content (gal.)	8.7		10.8		12.9	
Recommended Clearances for Ease of Serviceability						
Side, in	15					
Rear, in	20					

Buderus G215

Buderus boiler sections are assembled with beveled, surface profiled push nipples for long, trouble-free watertight operation. Flueways of Buderus boilers are sealed gas tight with tongue and groove section design and elastic high temperature resistant sealing rope. This seal is fully pressed into the groove during assembly to allow positive pressure operation. A permanent dry door gasket ensures repeated positive sealing off of the full swing burner door, producing a proven gas tight seal.

Buderus Developed a full three-pass system which increases the efficiency of the boilers. With single-pass boilers, the flue products have only one chance to heat the water. Buderus three-pass boilers triple this opportunity. The unique way heat flows through the G215 boilers allows the water to be heated three separate times. The full 3" thick thermal insulation helps to maintain a higher water temperature even after the boiler has gone into standby mode.

Features

- ▶ Improved Efficiency - 86% AFUE
- ▶ 5 models with outputs from 134 MBH to 294 MBH
- ▶ Rear tappings and flue connection to streamline appearance
- ▶ Baffles and clips for adjusting stack temperatures
- ▶ Heavy gauge blue enameled jacket for durability and attractiveness
- ▶ Full swing burner door hinged on either side allowing for easy access
- ▶ Front access plugs permit flushing of the boiler's interior
- ▶ Balances water flow through all boiler sections
- ▶ Operates at low return water temperatures



Model	G215/3	G215/4	G215/5	G215/6	G215/7
Performance Data					
D.O.E Heating Capacity (MBH)	134	171	207	256	294
Net IBR Rating (MBH)	117	149	180	223	256
Oil Firing Rate (GPH)	1.1	1.4	1.7	2.1	2.5
AFUE (%)	86.3	86.2	86.1	86.0	86.7
Number of Sections	3	4	5	6	7
Piping Connections					
Vent Connection Size	6				
Supply, in	1 ^{1/2}				
Return, in	1 ^{1/2}				
Physical Dimensions					
Overall Boiler Length, in	26 ^{1/4}	31	35 ^{3/4}	40 ^{1/2}	45 ^{1/4}
Boiler Block Length, in	22	26 ^{3/4}	31 ^{1/2}	36 ^{1/4}	41
Minimum Boiler Block Width, in	18				
Boiler Width, in	23 ^{1/2}				
Minimum Boiler Height, in	33 ^{1/2}				
Boiler Height, in	34 ^{1/2}				
Boiler Feet Spacing, in	13 ^{1/4}	18	22 ^{3/4}	27 ^{1/4}	32
Fire Box Depth, in	163/4	2/12	361/4	31	353/4
Fire Box Volume (cu. ft.)	1.35	1.73	2.10	2.48	2.86
Dry Weight (lbs.)	400	500	600	700	800
Approx. Water Content (gal.)	12.9	16.1	19.3	22.5	25.6
Recommended Clearances for Ease of Serviceability					
Side, in	15				
Rear, in	20				

About Bosch

Bosch Home Comfort Group in North America

Bosch Home Comfort Group is a leading source of high quality water heating and comfort systems. The company offers gas tankless, electric whole house and point-of-use water heaters, Bosch and Buderus floor-standing and wall-mounted boilers, Bosch and FHP geothermal, water-source and air-source systems as well as controls and accessories for all product lines. Bosch Home Comfort is committed to being Simply Smart by offering products that work together as integrated systems that enhance quality of life in an ultra-efficient and environmentally friendly manner. For more information, visit bosch-homecomfort.us.

Bosch Group

The Bosch Group is a leading global supplier of technology and services in the areas of Automotive, Industrial Technology, Consumer Goods and Building Technology. The company was founded in Stuttgart, Germany, in 1886 and presently has more than 440 subsidiaries and is represented in over 150 countries.

In the U.S., Canada and Mexico, the Bosch Group manufactures and markets automotive original equipment and aftermarket solutions, industrial drives and control technology, power tools, security and communication systems, packaging technology, home comfort solutions, household appliances and software solutions. The Bosch Group's products and services are designed to improving quality of life by providing innovative and beneficial solutions. In this way, the company offers technology worldwide that is Invented for life. Additional information is available online at www.bosch.com



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