



BOSCH

Invented for life

Bosch Stainless Steel Commercial Boiler

Buderus SSB

The Buderus SSB Heavy Commercial Boiler is a stainless steel boiler built for commercial applications with output ranges from 800 to 8192 MBH. Designed to deliver the highest quality, flexibility and dependability in the industry.





Heavy Duty Commercial Boiler

Meet the Bosch Buderus SSB

The Buderus SSB Heavy Commercial Boilers were designed to deliver the highest quality, flexibility and dependability in the industry. With a small footprint (31.5" x 36"), minimal clearance requirements and output ranges from 800 to 8192* MBH, these boilers can be utilized in almost any application.

If redundancy is what you're looking for, these boilers are the answer. Each SSB Industrial Boiler has two fully independent heat exchangers which can be operated individually if necessary. In addition, the 1000TL boilers have an innovative design which allows up to 4 of these boilers to be cascaded on either side without any additional purchased venting parts or accessories.

Designed to be used for both space heating and domestic hot water, the SSB works with multiple building communication options, including Modbus, BACnet and LonWorks. Integrated cascading allows configurations to meet heating demands of 8192 MBH making the SSB boiler ideal for many applications including schools, hotels, office buildings and warehouses.

Features

- ▶ Dual 316L stainless steel heat exchangers for increased capacity
- ▶ Flexible installation options with a small footprint
- ▶ Boiler is equipped with a multi-speed circulator pump on each module
- ▶ Connection points on either the left or right side
- ▶ Up to 96.8% thermal efficiency
- ▶ 80:1 turndown capability in cascade applications.
- ▶ Cascade up to eight SSB1000 boilers to achieve up to 8192 MBH
- ▶ 7" external touchscreen display for user-friendly complete system monitoring



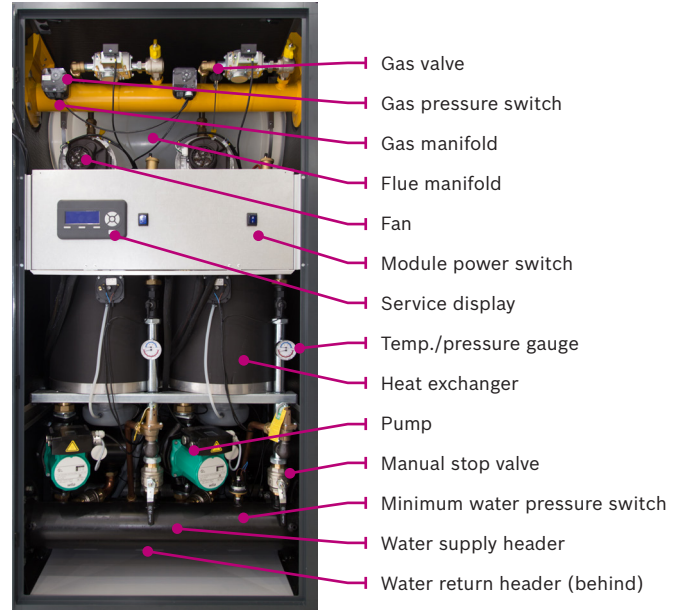
System & Technical Information

Cascade Up-To Four SSB1000TL's

- ▶ Easily connect up to four SSB1000TL boilers together without any additional parts or accessories.
- ▶ *8192 MBH is possible by connecting the communication cable between two sets of SSB1000TL4.
- ▶ All connections, including exhaust, intake, fuel, supply, return and condensate are designed to mate directly from one boiler to the next.
- ▶ Each SSB1000TL includes the connection hardware and gaskets to easily connect to another SSB1000TL.



Internal Components



Heat Exchanger

- ▶ Proven 316L stainless steel heat exchanger
- ▶ Dependable Water tube heat exchanger with easy access supply & return
- ▶ Thermal efficiency levels up to 96.8%, achieved with up to 80:1 modulation
- ▶ Precision welded for increased reliability



Integrated Control

- ▶ Manual Reset High Limit & LWCO test button
- ▶ Easily connected to a room thermostat
- ▶ Outdoor reset & hot water priority standard
- ▶ Smart System Control "Argus Vision" for easy set up & commissioning

| Technical Specifications | Unit of Measure | SSB800 | SSB1000 | SSB1000TL |
|--|------------------|---|----------------------|----------------------|
| Max input rate | BTU/hr (kW) | 798,000 (234) | 1,024,000 (300) | 1,024,000 (300) |
| Min input rate | BTU/hr (kW) | 79,800 (23.4) | 96,100 (28.2) | 96,100 (28.2) |
| Turndown | Ratio (%) | 10:1 (10%) | 10:1 (10%) | 10:1 (10%) |
| Gas Connections (NPT) | Ø Inch | 2 | 2 | 3 (Flanged) |
| Max./ Min NG Pressure | Inch W.C. (mbar) | 20 (50) / 3.5 (8.72) | | |
| Max. / Min LPG Pressure | Inch W.C. (mbar) | 20 (50) / 8 (19.9) | | |
| Water Connections | Ø Inch | 3 | | 5 |
| Water flow at max power (ΔT 36°F / 20°C) | GPM (m3/h) | 44 (10) | 57 (13) | 57 (13) |
| Water flow at max power (ΔT 45°F / 25°C) | GPM (m3/h) | 35 (8) | 44 (10) | 44 (10) |
| Water pressure drop at min water flow | Feet W.C. (mbar) | 7 (209) | 8 (239) | 7 (209) |
| Water pressure drop at max water flow | Feet W.C. (mbar) | 19 (568) | 33 (986) | 29 (866) |
| Water Volume | Gallon (liter) | 13.0 (50) | 16.0 (60) | 20.0 (75) |
| Vent/Air Intake Connections | Ø Inch (Ø mm) | 6 (160) | 6 (160) | 10 (254) |
| Max operating temperature | °F (°C) | 194 (90) | 194 (90) | 194 (90) |
| Max HE allowable temperature | °F (°C) | 210 (98.9) | 210 (98.9) | 210 (98.9) |
| Ambient storage temperature dry | °F (°C) | 5 to 158 (-15 to 70) | 5 to 158 (-15 to 70) | 5 to 158 (-15 to 70) |
| Ambient functioning temperature | °F (°C) | 32 to 120 (0 to 49) | 32 to 120 (0 to 49) | 32 to 120 (0 to 49) |
| Surface heat exchanger | SQFT (m2) | 56 (5.2) | 88 (8.2) | 88 (8.2) |
| Standard Listings & Approvals | | ASME Sect.IV | | |
| Type of Gas | | Natural Gas, Propane | | |
| Electrical Req. 120VAC/1PH/60Hz | | 15.1 FLA * | | |
| Noise rating | dB | 51 | 52 | 52 |
| Weight (dry) | lbs (kg) | 860 (390) | 992 (450) | 1124 (510) |
| Min. clearance to combustibles* | Inch (mm) | 24 (610) | | |
| Dimension W x H x D (inches rounded up to the nearest 1/2") | Inch (mm) | 31 ^{1/2} x 35 ^{1/2} x 71 (800x900x1800) | | |

About **Bosch**

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, thermotechnology, 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 boschheatingandcooling.com and bosch.ca.

Bosch Thermotechnology in North America

Bosch Thermotechnology 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 Thermotechnology 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 boschheatingandcooling.com.

Bosch Water-Source Heat Pumps: Made in the U.S.A.

Bosch and FHP water-source and geothermal heat pumps are made by highly trained and skilled workers in our factory based in Fort Lauderdale, Florida. They are manufactured with rigorous standards and factory testing ensuring high efficient operation over the life of the unit. Bosch's ISO 9001 and ISO 14001 certified facilities provide consistent quality in every unit built.



Heating



Cooling



Hot Water



Controls

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