Superior Equipment by Design

- High Efficiency—Combustion Efficiencies Up to 88.2%
- 350 to 3,982 MBH Output
- Thermostream Design Eliminates Thermal Shock
A Better Way to Heat
The Buderus commercial Thermostream boilers are designed with many physical attributes setting them above the competition and increasing their longevity and efficiency. The burner doors are field adjustable to swing fully open from either side, to enable the boilers to fit in any location. These boilers are shipped knocked down for easy transport, the G315 and the G515 can also be shipped as an assembled block. Due to the unique chamber design, no refractory materials are used. This reduces the number of service calls and maximizes heat transfer. Buderus precision castings eliminate the need for manual grinding. Precision beveled steel push nipples join cast iron sections and high temperature flue sealants are used to sustain pressurized operation.

The G315 and G515 come with a full 3½" of thermal insulation, and the G615 comes with a full 4" of thermal insulation to reduce standby heat loss. All Buderus cast iron commercial boilers are manufactured with the Buderus GL-180M cast iron with a silicone “barrier skin.” To streamline the appearance of the boilers, the supply and return connections for the G315 are located at the rear of the boiler, while the G515/G615 have top supply and a rear return. These boilers are for use with hot water and can be installed with gas, oil or dual fuel burners.

Intelligent Heating—by Design
Buderus, the world leader in heating technology, manufactures the highest quality boilers based on centuries of experience. With its innovative design and quality manufacturing, a Buderus boiler will outlast and out-perform virtually any other commercial hot water boiler system in the world.

The G315, G515 and G615 are designed to maximize the heating value of every ounce of fuel and are built with the highest quality materials. Established in 1731, Buderus uses state-of-the-art techniques in the design and manufacturing of its boilers.

Thermostream Design
The Buderus developed Thermostream principle is proven for higher efficiency and improved system reliability in high volume heating systems. Condensation and thermal shock are made impossible by design, as cool return water mixes internally and is preheated with supply water before exposure to directly heated surfaces. This process eliminates hot and cold spots in the boiler and balances water flow throughout all boiler sections. The Thermostream design permits continuous low temperature operation under normal return water without requiring a minimum boiler return temperature. Internal water circulation and injection into each boiler section combined with deflection plates ensure condensate free boiler operation—even under no flow conditions.

Design Benefits
- Eliminates the need for bypass loop or shunt pump
- Eliminates hot and cold spots in the boiler
- Allows operation at low return water temperatures without thermal shock concerns
- Minimum supply temperature of 122°F with standard control
- Ensures balanced water flow through all boiler sections
Boiler Construction
The boiler sections are assembled with beveled, surface-profiled push nipples for long, trouble-free watertight operation. Boiler flueways are manufactured to be gas tight with tongue and groove section design and elastic, high temperature resistant sealing rope. A permanent dry door gasket ensures repeated positive sealing of the full swing burner door. Because flue gases cannot escape through the seams between boiler sections, the boilers are able to retain heat more efficiently.

GL-180M Gray Cast Iron
Buderus GL-180M silicone injected, gray cast iron obtains its superior material characteristics primarily from a high carbon (graphite) and silicone content.

Buderus GL-180M gray cast iron has excellent corrosion resistance, exceptional casting characteristics, 40% greater flexibility and elasticity as well as high thermal conductivity. Buderus developed the special substances that are impregnated during the casting process to improve the mechanical properties of cast iron. The graphite precipitates into smaller, modified flakes which produce GL-180M cast iron with 40% greater elasticity and a high silicone barrier for corrosion protection. All sections are heat treated to relieve thermal stresses. Additional elements further enhance the properties of the GL-180M. The graphite appears in two different forms in the microstructure: nodular form producing excellent tensile strength and great elasticity and graphite flakes producing excellent corrosion resistance against acidic combustion products.

Full Three Pass Design—for High Efficiency
Buderus developed the full three pass system to increase the heat transfer and efficiency of boilers. This design allows more heat to be transferred during all three passes, unlike conventional boilers that only use one pass to transfer heat. This system maximizes the total possible heat available with the lowest fuel consumption possible. To greatly decrease standby loss Buderus has manufactured a 3 1/2" and 4" thick thermal insulation.

The Three-Pass Boiler is Designed for:

- 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 3 1/2" 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.
Complete Your System

Once you have a Buderus boiler, you can add a Buderus indirect fired hot water tank, an optional Buderus Logamatic Control or both. The Logamatic Control maximizes your comfort and fuel savings. It will also accommodate specialized heating applications such as radiant flooring. Combined, this premium heating system will provide years of exceptional comfort and economy.

Convenient Logamatic Control

Logamatic Controls can be used to adjust the firing rates of burners in multi-boiler systems. Controls can be pre-programmed with automatic night and day functions and set to trigger automatic adjustments based on shifts in outdoor or indoor temperatures. An optional module is available for direct communication with building management systems.

4000 Logamatic Control Series

The intelligent regulation of energy is the heart of any heating system. A Logamatic Control provides the ability to make finer adjustments than are possible by manually turning the boiler off and on or relying on traditional thermostats. Multiple design innovations increase the versatility of Buderus Logamatic Controls including the automatic adjustment between various modes of operation. A change in modes can be set to correspond with time, date or temperature. Modes can also be changed manually. All Logamatic Controls now include summer, winter and vacation modes which effectively regulates energy consumption. This regulation is effective in single or multi-boiler systems, with any heat source and with one or multiple heating zones.

Heatronic 4000 Control Series

The Heatronic 4000 is pre-loaded with the parameters for Bosch and Buderus commercial boilers. Pre-programmed options include fuel type, boiler type, high and low fire outputs, motor speed, pump purge time, maximum temperature output, and min/max modulation parameters. The Heatronic 4000 works with up to four condensing and non-condensing boilers that are either modulating, single stage or two stage. Designed to accurately maintain target water temperature based on outdoor temperature reset or a fixed setpoint for space or process heating applications. Optional features to increase efficiency and boiler plant reliability include domestic hot water and setpoint heating, boiler run-time balancing, stand-by primary pump operation, and pump exercising.

4000 Logamatic Control Series

Integrated multi-boiler system controller with the following system features and optional control modules:

- Outdoor reset, staged burner operation
- Control of single, two-stage and modulating burners (up to 8 boilers)
- Automatic and load/switch dependent boiler rotation
- Operation of boiler pumps, 2-way valves, 3 or 4-way valves and system pumps
- BMS interface capability
- External load capability: DHW and other on-demand loads
- Self diagnostics and system parameter display
## G315 Series

### Performance Data

<table>
<thead>
<tr>
<th>Model</th>
<th>G315/5</th>
<th>G315/6</th>
<th>G315/7</th>
<th>G315/8</th>
<th>G315/9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross Output MBH</td>
<td>350</td>
<td>454</td>
<td>559</td>
<td>663</td>
<td>768</td>
</tr>
<tr>
<td>Number of Sections</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>Max. Input Gas MBH</td>
<td>433</td>
<td>556</td>
<td>678</td>
<td>801</td>
<td>924</td>
</tr>
<tr>
<td>Max. Input Oil</td>
<td>3.0</td>
<td>3.85</td>
<td>4.7</td>
<td>5.6</td>
<td>6.4</td>
</tr>
<tr>
<td>Net IBR MBH</td>
<td>304</td>
<td>395</td>
<td>486</td>
<td>577</td>
<td>668</td>
</tr>
<tr>
<td>Boiler HP</td>
<td>10.4</td>
<td>13.6</td>
<td>16.6</td>
<td>19.8</td>
<td>22.9</td>
</tr>
<tr>
<td>Max. Operating Pressure (psi)</td>
<td>87</td>
<td>87</td>
<td>87</td>
<td>87</td>
<td>87</td>
</tr>
<tr>
<td>Combustion Efficiency Oil</td>
<td>86.8%</td>
<td>86.9%</td>
<td>87%</td>
<td>87.1%</td>
<td>87.1%</td>
</tr>
<tr>
<td>Combustion Efficiency Gas</td>
<td>84.2%</td>
<td>84.3%</td>
<td>84.4%</td>
<td>84.4%</td>
<td>84.4%</td>
</tr>
<tr>
<td>Thermal Efficiency Oil</td>
<td>83.3%</td>
<td>84.3%</td>
<td>84.9%</td>
<td>85.4%</td>
<td>85.7%</td>
</tr>
<tr>
<td>Thermal Efficiency Gas</td>
<td>80.0%</td>
<td>81.8%</td>
<td>82.4%</td>
<td>82.8%</td>
<td>83.1%</td>
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</table>

### Piping Connections

- Vent Connection Size, in.: 7, 7, 7, 7, 7
- Supply, in.: 3, 3, 3, 3, 3
- Return, in.: 3, 3, 3, 3, 3

### Physical Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>G315/5</th>
<th>G315/6</th>
<th>G315/7</th>
<th>G315/8</th>
<th>G315/9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Boiler Length, in. (LG)</td>
<td>44¼</td>
<td>50½</td>
<td>56¼</td>
<td>63¼</td>
<td>69½</td>
</tr>
<tr>
<td>Boiler Block Length, in. (LK)</td>
<td>38¼</td>
<td>44½</td>
<td>50¼</td>
<td>57</td>
<td>63½</td>
</tr>
<tr>
<td>Boiler Door Thickness, in.</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Minimum Boiler Width, in. (BE)</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>Height, in.</td>
<td>40½</td>
<td>40½</td>
<td>40½</td>
<td>40½</td>
<td>40½</td>
</tr>
<tr>
<td>Fire Box Depth, in. (LF)</td>
<td>31</td>
<td>37½</td>
<td>43½</td>
<td>50</td>
<td>56½</td>
</tr>
<tr>
<td>Fire Box Diameter, in.</td>
<td>15¼</td>
<td>15¼</td>
<td>15¼</td>
<td>15¼</td>
<td>15¼</td>
</tr>
<tr>
<td>Fire Box Volume (cu. ft.)</td>
<td>5.19</td>
<td>6.39</td>
<td>7.59</td>
<td>8.79</td>
<td>9.99</td>
</tr>
<tr>
<td>Dry Weight (lbs.)</td>
<td>1,197</td>
<td>1,391</td>
<td>1,585</td>
<td>1,779</td>
<td>1,973</td>
</tr>
<tr>
<td>Water Content (gal.)</td>
<td>37.8</td>
<td>45.2</td>
<td>52.6</td>
<td>60.0</td>
<td>67.4</td>
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<tr>
<td>Operating Weight (lbs.)</td>
<td>1,512</td>
<td>1,768</td>
<td>2,024</td>
<td>2,280</td>
<td>2,545</td>
</tr>
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</table>

### Boiler Model

<table>
<thead>
<tr>
<th>Model</th>
<th>315/5</th>
<th>315/6</th>
<th>315/7</th>
<th>315/8</th>
<th>315/9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation Length L1, in.</td>
<td>36</td>
<td>42½</td>
<td>48½</td>
<td>54½</td>
<td>61</td>
</tr>
<tr>
<td>Flat Plate Length L2, in.</td>
<td>28¼</td>
<td>35</td>
<td>41½</td>
<td>47½</td>
<td>54</td>
</tr>
</tbody>
</table>

The boiler must be placed on a smooth, level concrete base, 33½” wide. Cement in the base or place on its top either 4” x ¼” flat steel plates or 4” x 2” x ⅛” angle irons for boiler support. Dimensions L1 and L2 are specified in the table above.

Buderus recommends the use of Beckett, Gordon Platt, Power Flame and Riello burners for oil/gas firing (Buderus stocks Riello and Beckett burners).

### G315 Foundation Dimensions

### 315 Section Weights in lbs

<table>
<thead>
<tr>
<th>Model</th>
<th>315/5</th>
<th>315/6</th>
<th>315/7</th>
<th>315/8</th>
<th>315/9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front</td>
<td>199</td>
<td>199</td>
<td>199</td>
<td>199</td>
<td>199</td>
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</tbody>
</table>

Approval numbers are subject to periodic changes and updates. Please visit www.buderus.us for the most up-to-date approval numbers.

5
## G515 Series

### Performance Data

<table>
<thead>
<tr>
<th>Model</th>
<th>G515/7</th>
<th>G515/8</th>
<th>G515/9</th>
<th>G515/10</th>
<th>G515/11</th>
<th>G515/12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross Output MBH</td>
<td>818</td>
<td>1,009</td>
<td>1,201</td>
<td>1,392</td>
<td>1,583</td>
<td>1,775</td>
</tr>
<tr>
<td># of Sections</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
</tr>
<tr>
<td>Max Input Gas MBH</td>
<td>995</td>
<td>1,216</td>
<td>1,438</td>
<td>1,660</td>
<td>1,881</td>
<td>2,103</td>
</tr>
<tr>
<td>Max Input Oil GPH</td>
<td>6.9</td>
<td>8.4</td>
<td>10.0</td>
<td>11.6</td>
<td>13.0</td>
<td>14.6</td>
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<tr>
<td>Net IBR MBH</td>
<td>711</td>
<td>877</td>
<td>1,044</td>
<td>1,210</td>
<td>1,377</td>
<td>1,543</td>
</tr>
<tr>
<td>Boiler HP</td>
<td>24.5</td>
<td>30.2</td>
<td>35.9</td>
<td>41.6</td>
<td>47.3</td>
<td>53</td>
</tr>
<tr>
<td>Max Operating Pressure (psi)</td>
<td>87</td>
<td>87</td>
<td>87</td>
<td>87</td>
<td>87</td>
<td>87</td>
</tr>
<tr>
<td>Combustion Efficiency Oil</td>
<td>88.2%</td>
<td>88.2%</td>
<td>88.1%</td>
<td>88.1%</td>
<td>88.1%</td>
<td>88.1%</td>
</tr>
<tr>
<td>Combustion Efficiency Gas</td>
<td>85.6%</td>
<td>85.5%</td>
<td>85.5%</td>
<td>85.4%</td>
<td>85.4%</td>
<td>85.4%</td>
</tr>
<tr>
<td>Thermal Efficiency Oil</td>
<td>84.8%</td>
<td>85.5%</td>
<td>86.1%</td>
<td>86.4%</td>
<td>86.8%</td>
<td>87.0%</td>
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<tr>
<td>Thermal Efficiency Gas</td>
<td>82.2%</td>
<td>83.0%</td>
<td>83.5%</td>
<td>83.9%</td>
<td>84.2%</td>
<td>84.4%</td>
</tr>
</tbody>
</table>

### Piping Connections

- Vent Connection Size, in: 10
- Supply, in: 4
- Return, in: 4

### Physical Dimensions

- Overall Boiler Length, in. (LG): 62¼, 69, 75¾, 82½, 89¼, 95¾
- Boiler Block Length, in. (LK): 54¼, 61, 67½, 74¼, 81, 87½
- Boiler Door Thickness, in: 5
- Minimum Boiler Width, in. (BE): 33
- Height, in: 52¼, 52¼, 52¼, 52¼, 52¼, 52¼
- Fire Box Depth, in. (LF): 45¼, 52¼, 52¼, 52¼, 52¼, 52¼
- Fire Box Diameter, in: 20¼, 20¼, 20¼, 20¼, 20¼, 20¼
- Fire Box Volume (cu. ft.): 14.87, 17.16, 19.46, 21.75, 24.05, 26.31
- Dry Weight (lbs): 2,731, 3,059, 3,505, 3,864, 4,188, 4,541
- Water Content (gal): 68.2, 77.7, 87.2, 96.7, 106.2, 115.7
- Operating Weight (lbs): 3,300, 3,707, 4,233, 4,671, 5,074, 5,506

### 515 Section Weights in lbs

<table>
<thead>
<tr>
<th>Front</th>
<th>Intermediate</th>
<th>Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td>326</td>
<td>331</td>
<td>357</td>
</tr>
</tbody>
</table>

The boiler must be placed on a smooth, level concrete base, 33½" wide. Cement in the base or place on its top either 4" x ¼" flat steel plates or 4" x 2" x ¼" angle irons for boiler support. Dimensions L1 and L2 are specified in the table above.

Buderus recommends the use of Beckett, Gordon Platt, Power Flame and Riello burners for oil/gas firing (Buderus stocks Beckett and Riello burners).
## G615 Series

### Performance Data

<table>
<thead>
<tr>
<th>Model</th>
<th>G615/9</th>
<th>G615/10</th>
<th>G615/11</th>
<th>G615/12</th>
<th>G615/13</th>
<th>G615/14</th>
<th>G615/15</th>
<th>G615/16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross Output MBH</td>
<td>1,201</td>
<td>2,242</td>
<td>2,532</td>
<td>2,822</td>
<td>3,112</td>
<td>3,402</td>
<td>3,692</td>
<td>3,982</td>
</tr>
<tr>
<td>Number of Sections</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>Max. Input Gas MBH</td>
<td>1,438</td>
<td>2,670</td>
<td>3,031</td>
<td>3,392</td>
<td>3,753</td>
<td>4,113</td>
<td>4,474</td>
<td>4,835</td>
</tr>
<tr>
<td>Max. Input Oil</td>
<td>16.0</td>
<td>18.5</td>
<td>21.0</td>
<td>23.5</td>
<td>26.0</td>
<td>28.5</td>
<td>31.0</td>
<td>33.5</td>
</tr>
<tr>
<td>Net IBR MBH</td>
<td>1,697</td>
<td>1,950</td>
<td>2,202</td>
<td>2,454</td>
<td>2,706</td>
<td>2,958</td>
<td>3,210</td>
<td>3,463</td>
</tr>
<tr>
<td>Boiler HP</td>
<td>58.3</td>
<td>66.9</td>
<td>75.6</td>
<td>84.3</td>
<td>92.9</td>
<td>101.6</td>
<td>110.3</td>
<td>118.9</td>
</tr>
<tr>
<td>Max. Operating Pressure (psi)</td>
<td>87</td>
<td>87</td>
<td>87</td>
<td>87</td>
<td>87</td>
<td>87</td>
<td>87</td>
<td>87</td>
</tr>
<tr>
<td>Combustion Efficiency Oil</td>
<td>88.1%</td>
<td>86.7%</td>
<td>86.6%</td>
<td>86.6%</td>
<td>86.5%</td>
<td>86.5%</td>
<td>86.5%</td>
<td>86.5%</td>
</tr>
<tr>
<td>Combustion Efficiency Gas</td>
<td>85.5%</td>
<td>84.1%</td>
<td>84%</td>
<td>84%</td>
<td>83.9%</td>
<td>83.9%</td>
<td>83.9%</td>
<td>83.9%</td>
</tr>
<tr>
<td>Thermal Efficiency Oil</td>
<td>86.1%</td>
<td>86.1%</td>
<td>85.8%</td>
<td>85.5%</td>
<td>85.3%</td>
<td>85.1%</td>
<td>84.0%</td>
<td>84.9%</td>
</tr>
<tr>
<td>Thermal Efficiency Gas</td>
<td>83.5%</td>
<td>83.9%</td>
<td>83.5%</td>
<td>83.2%</td>
<td>82.9%</td>
<td>82.7%</td>
<td>82.5%</td>
<td>82.4%</td>
</tr>
</tbody>
</table>

### Piping Connections

- **Vent Connection Size, in.**
  - 14

- **Supply, in.**
  - 6

- **Return, in.**
  - 6

### Physical Dimensions

- **Overall Boiler Length, in. (LG)**: 75¾ 82⅛ 89¼ 96 102½ 109¼ 116 122¾
- **Boiler Block Length, in. (LK)**: 71 77¾ 84½ 92 97¾ 104½ 111¼ 117¾
- **Boiler Door Thickness, in.**
  - 5
- **Minimum Boiler Width, in. (BE)**
  - 50¼ 50¼ 50¼ 50¼ 50¼ 50¼ 50¼ 50¼
- **Height, in.**
  - 62⅛ 62⅛ 62⅛ 62⅛ 62⅛ 62⅛ 62⅛ 62⅛
- **Fire Box Depth, in. (LF)**
  - 60 66½ 73½ 80 86⅛ 93½ 100¾ 107⅛
- **Fire Box Diameter, in.**
  - 26½ 26½ 26½ 26½ 26½ 26½ 26½ 26½
- **Fire Box Volume (cu. ft.)**
  - 23.56 25.21 29.07 31.46 34.08 36.72 39.34 41.97
- **Dry Weight (lbs.)**
  - 5,510 6,045 6,580 7,110 7,645 8,160 8,799 9,125
- **Water Content (gal.)**
  - 144 160 176 192 208 224 240 256
- **Operating Weight (lbs.)**
  - 6,740 7,390 8,050 8,720 9,390 10,040 10,720 11,280

### Boiler Model

- **615/9**
- **615/10**
- **615/11**
- **615/12**
- **615/13**
- **615/14**
- **615/15**
- **615/16**

### Foundation Dimensions

- **Foundation Length L1, in.**
  - 65½
  - 72⅛
  - 79¼
  - 86
  - 92⅛
  - 99¼
  - 106
  - 112½

- **Flat Plate Length L2, in.**
  - 58
  - 64½
  - 71¼
  - 78
  - 84½
  - 91¼
  - 98
  - 104½

The boiler must be placed on a smooth, level concrete base, 33½" wide. Cement in the base or place on its top either 4" x ⅛" flat steel plates or 4" x 2" x ⅛" angle irons for boiler support. Dimensions L1 and L2 are specified in the table above. Buderus recommends the use of Beckett, Gordon Platt, Power Flame and Riello burners for oil/gas firing (Buderus stocks Riello and Beckett burners).
G315 | G515 | G615
Cast Iron Commercial Boilers

Superior Design

▶ Designed to operate at any return water temperature
▶ Full swing burner door for easy and 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 and system reliability
▶ High efficiency through full three-pass boiler design
▶ No thermal shock as result of unique Thermostream boiler design
▶ No minimum water temperature
▶ Savings in overall equipment costs, installations and annual operating costs
▶ High combustion and thermal efficiencies

Commercial Boiler Specifications

1. There shall be provided and installed a quantity of __ G315, G515 or G615 Buderus sectional cast iron hot water boiler(s) with a total gross output rating of __ MBH, suitable for forced draft firing with No. 2 fuel oil, natural gas, or propane. Maximum operating pressure of the boiler(s) shall be 87 psi. They shall bear the ASME stamp and IBR rating.

2. Boiler(s) shall be fabricated with GL-180M high silicone cast iron. They shall be of wet base, double wall, sectional construction with precision machined steel push nipples. Boiler(s) shall have a 10-year warranty against defects in the heat exchanger.

3. Boiler(s) shall be of full three pass design, capable of achieving combustion efficiencies up to 87.1% on oil and up to 84.5% on gas at full firing rate. Boiler(s) shall contain no refractory material or combustion target wall.

4. Boiler(s) shall be capable of sustained operation at any return water temperature without any means external to the boiler to temper or preheat return water. When operating with standard high temperature controls a water temperature of 122°F must be reached within ten minutes at the boiler supply during burner operation.

5. Access to boiler firesides for inspection and service shall be through a fully insulated and jacketed door, field adjustable for left or right hinging. The seal between door and boiler casing shall be a permanent dry gasket for repeated positive sealing. All flue passages shall be accessible only through the front door and removable rear clean-out covers.

6. Boiler(s) shall be furnished with a heavy-gauge baked enamel jacket with a full 3½" or 4" insulation on top and on all sides, flanged water connections and a cast iron flue collector for long life.

Operational Requirements for the G315, G515 and the G615

▶ Maintain minimum 122°F supply temperature with standard high temperature controls during burner operation within 10 minutes after burner starts up.
▶ No additional requirements for firing with 2-stage or full modulation burners (gas or oil).
▶ No minimum return water temperature and no minimum flow requirement.
▶ Boiler(s) shall not require return water temperature control or minimum flow condition.

Approval numbers are subject to periodic changes and updates. Please visit our website for the most up-to-date approval numbers.

A Tradition of Excellence
The world leader in heating technologies since 1825, Buderus produced the first low-temperature hydronic heating systems. Today, Buderus products are acknowledged as the global standard in high-efficiency, low emissions hydronic heating. All Buderus products are designed to meet strict safety and environmental regulations.

Buderus boilers are quick and easy to install and will outlast and outperform virtually any other hot water heating system. They are designed for easy access and service. With appropriate maintenance, Buderus boilers deliver the highest efficiencies throughout the lifespan of operation. Buderus is a member of Bosch Thermotechnology.