Peerless® Complete Commercial Boiler Line

- PureFire PF399® & PF460®
- PureFire PFW200® & PFW399®
- PureFire PF850®
- Series GM™
- PureFire PF1000® & PF1500®
- Series GM/Flex-Heat™
- Series SC/SCT™
- Series CC™
- Series LC/LCE™
- Series TC II™
PureFire® Semi-Commercial Boiler

Two Sizes – PF399 & PF460

- Up to 96.6% Thermal Efficiency
- Gas-fired Condensing Boiler for Natural or LP Gas
- With Addition of LWCO, Boilers are CSD-1 Compliant
- Direct-Vent/Sealed Combustion or Indoor Air
- Fully Modulating Burner with Maximum 5:1 Turndown
- ETL Certified for U.S. and Canada
- Environmentally Friendly—LoNOx Operation
- Sleek, Modern Design with Easy Access to Controls
- Compact with Small Footprint
- Cascade Capable—up to 16 Boilers
- MODBUS Communications - Standard
- BACnet/LonWorks - Optional

Compare:  SlimFit  Apex
PEERLESS® COMMERCIAL BOILERS

PFW® Condensing Hot Water Supply Boilers

• AFUE – 95% • Natural Gas or LP • 5:1 Turn Ratio
• Two Sizes Available (PFW200® & PF399®)
• New Market Opportunity For Commercial Sales – Apartments, Schools, Restaurants
• One Year Parts & Labor Warranty Included (See Limited Warranty for more details)
• PureFire PFW® Provides DHW similar to Volume Water Heaters (VWH) Without Indirect Tank
• Conversion Kit From PF® to PFW® is Available Example PF200® to PFW200®
• Conversion Kit Will Allow Greater Inventory Flexibility for Distributor
• DHW Load Calculation, Competitor Pricing and Code Requirements are Key Issues

Compare: None

None
PureFire® Hi-Efficiency Commercial Boiler

Three Sizes – PF850, PF1000 & PF1500

Proven & Dependable PureFire® Technology To Commercial Market

2 Burners, Gas Valves, Blowers, Controls* & Condensate Removal System

All Working Together For the Most Reliable Boiler with 10:1 Turndown* & 90%+ High Efficiency

“Trio” Heat Exchanger with Patented Flapper Valve to Seal Each Burner - Allows Common Venting of Multiple Boilers

Compare: SlimFit Apex
PEERLESS® COMMERCIAL BOILERS

PureFire® Hi-Efficiency Commercial Boiler

Three Sizes – PF850, PF1000 & PF1500

At the Heart of All PureFire® Heat Exchangers
- the Stainless Steel Loop -

Proven & Dependable PureFire® Technology To Commercial Market
2 Burners, Gas Valves, Blowers, Controls & Condensate Removal System
All Working Together For the Most Reliable Boiler with 10:1 Turndown & 95% - 96%
Giannoni Trio Design Concept

Water Passages Direct Flow Opposite to Flue Gas Flow

Coolest System Water Meets Pre-Cooled Flue Gas for Maximum Condensation & Heat Extraction
Giannoni Trio Design Concept
PureFire® Vent Design

- Flapper Valve Mounts Between Blower Discharge and Burner Inlet & Prevents Flue Gas from Leaking Out of Combustion System of a Burner That is Off
- Magnet & Gravity Keep Flap Closed – Running Blower Keeps Flap Open
- Boiler Main Control Constantly Monitors Switch for Proper Safe Position
- Turbulator Fins Swirl the Fuel/Air Mixture for Consistent Burner Combustion

*Flapper Proof-of-closure Switches:* These switches transmit the position of the flapper to their respective primary control. If the switch indicates that the flapper is not closed on the inactive burner while the other burner is operating, it will start the blower for the inactive burner. This will assure a positive combustion chamber pressure and prevent combustion gases from back-feeding through the inactive burner in the event of a flapper failure.
Hardware is Provided To Stack Two PureFire® Commercial Boilers for Saving Boiler Room Space and Allow Easier Common Venting
Stacked Boiler Vent Kit

IMPORTANT NOTES:
1) All exhaust vent pipes must be properly sealed.
2) All exhaust vent and air intake pipes must be properly supported to prevent sagging pipes which may collect condensate.
3) All horizontal exhaust vent and air intake pipes must be properly pitched toward the boiler a minimum of 1/4" per foot to allow for condensate drainage.

<table>
<thead>
<tr>
<th>BOILER MODEL</th>
<th>KIT STOCK CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PF-850</td>
<td>54634</td>
</tr>
<tr>
<td>PF-1000</td>
<td></td>
</tr>
<tr>
<td>PF-1500</td>
<td>54635</td>
</tr>
</tbody>
</table>
Building Management Systems
Series GM™ Cast Iron Boilers

- Packaged Residential or Commercial Hot Water Boilers
- Natural Gas or LP
- Natural Draft Venting
- Intermittent Spark Ignition
- Steel Push Nipples
- Gas & Water Connections Through Front or Top
- Good Option for Modular or Multiple Boiler Configuration

Type: Semi-Commercial
Construction: Cast Iron
Fuel: Gas-Fired (Natural or LP)
Input: 228 to 399 MBH
Output: 187 to 327 MBH Gross
Venting: Natural Draft
Trim: Water

Compare: None 8H/8HE
Series GM™/FlexHeat® Cast Iron Boilers

- The Peerless® Flex-Heat® Hydronic Comfort System
- Combines Series GM boilers in Multiple or Modular arrangements
- Shown with the Peerless® Partner® indirect-fired water heater, modern system controls, circulators
- Design application guide provides efficient, economical space and domestic hot water heating.

**Specifications:**

- **Type:** Semi-Commercial/Commercial
- **Construction:** Cast Iron
- **Fuel:** Gas-Fired (Natural)
- **Input:** 456 to 3,990 MBH
- **Output:** 374 to 3,272 MBH Gross
- **Venting:** Natural Draft
- **Trim:** Water
- **Ignition:** Intermittent Spark

**Compare:** None 8H/8HE
Series 64™ Cast Iron Boilers

- Semi-Commercial, Packaged or Knockdown Gas Boiler
- Natural or LP Gas
- Natural Draft (Chimney) Venting
- Electrically Operated Vent Damper (Optional)
- Large Water Content
- Single Vent Draft Hood
- Spark Ignition
- Steam or Hot Water Boilers
- Skim Tapping for Cleaning Steam Boilers

Type: Semi-Commercial
Construction: Cast Iron
Fuel: Gas-Fired (Natural or LP)
Input: 345 to 632.5 MBH
Output: 279 to 525 MBH Gross
Venting: Natural Draft
Trim: Water or Steam

Compare: EGH  None
Series 211A™ Cast Iron Boilers

- Commercial Atmospheric Gas Boiler
- Packaged, Assembled Block (to 19 Sections Only) or Individual Sections
- Natural Draft Venting
- 630 to 9,450 MBH Input
- Steam Boilers
- Natural or LP Gas

Type: Commercial
Construction: Cast Iron
Fuel: Gas-Fired (Natural or LP)
Input: 630 to 9,450 MBH
Output: 504 to 7,560 MBH Gross
Venting: Natural Draft
Trim: Steam

Compare: LGB 5B
Series SC/SCT™ Cast Iron Boilers

- Semi-Commercial, Packaged or Knockdown Gas Boiler
- Forced Draft Venting
- Power Burner — Oil, Gas, Gas/Oil
- Steam or Hot Water Boilers
- Optional Tankless Coils

Type: Semi-Commercial
Construction: Cast Iron
Fuel: Oil, Gas, Gas/Oil-Fired
Input: 433 to 794 MBH
Output: 343 to 632 MBH
Venting: Forced Draft
Trim: Water or Steam
Combustion: Power Burner

Compare: V9A
PEERLESS® COMMERCIAL BOILERS

Series CC™ Cast Iron Boilers

- Packaged Assembled Block or Individual Sections
- Forced Draft Venting
- Power Burner — Oil, Gas, Gas/Oil
- Steam or Hot Water Boilers
- Optional Side-mounted 9 GPM Tankless Coils

Type: Semi-Commercial
Construction: Cast Iron
Fuel: Oil, Gas, Gas/Oil-Fired
Input: 375 to 2,165 MBH
Output: 308 to 1750 MBH
Venting: Forced Draft
Trim: Water or Steam
Combustion: Power Burner

Compare: 80 V9A
## Side-Mounted Tankless Heater Capacities

<table>
<thead>
<tr>
<th>No. of Sections</th>
<th>I=B=R Gross Output (MDH)</th>
<th>Cont. Draw (GPM)</th>
<th>One Heater</th>
<th>Two Heaters</th>
<th>Three Heaters</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>308</td>
<td></td>
<td>8.5</td>
<td>N/A</td>
<td>N/A</td>
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<td>421</td>
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<td>8.5</td>
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<tr>
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<td>587</td>
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<td>9.0</td>
<td>10.6</td>
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<tr>
<td>6</td>
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<td>1087</td>
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<td>17.6</td>
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<td>1262</td>
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<td>18.0</td>
<td>19.9</td>
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<tr>
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<td>18.0</td>
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<td>11</td>
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<td>9.0</td>
<td>18.0</td>
<td>24.6</td>
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<tr>
<td>12</td>
<td>1750</td>
<td></td>
<td>9.0</td>
<td>18.0</td>
<td>26.9</td>
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</table>

## Heater Section Location

<table>
<thead>
<tr>
<th>Boiler Model Number</th>
<th>Max. No. of Heaters</th>
<th>Location by Boiler Section (Heaters Install from Right Side)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC-3</td>
<td>1</td>
<td>F - H - B</td>
</tr>
<tr>
<td>CC-4</td>
<td>1</td>
<td>F - P - H - B</td>
</tr>
<tr>
<td>CC-5</td>
<td>2</td>
<td>F - H - P - H - B</td>
</tr>
<tr>
<td>CC-6</td>
<td>2</td>
<td>F - P - H - P - H - B</td>
</tr>
<tr>
<td>CC-7</td>
<td>3</td>
<td>F - H - P - H - P - H - B</td>
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<tr>
<td>CC-8</td>
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<td>F - P - H - P - H - P - H - B</td>
</tr>
<tr>
<td>CC-9</td>
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<td>F - P - H - P - H - P - H - B</td>
</tr>
<tr>
<td>CC-10</td>
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<td>F - P - H - P - H - P - H - P - B</td>
</tr>
<tr>
<td>CC-11</td>
<td>3</td>
<td>F - P - H - P - H - P - H - P - B</td>
</tr>
<tr>
<td>CC-12</td>
<td>3</td>
<td>F - P - H - P - H - P - H - P - B</td>
</tr>
</tbody>
</table>

Heater ratings based on 100°F temperature rise, 200°F boiler water, 9 GPM at 9.5 psi. For 180°F boiler water ratings, consult factory.

F = Front, P = Intermediate Plain, H = Intermediate Heater, B = Back
Series LC/LCE™ Cast Iron Boilers

- Large Commercial
- Packaged Assembled Block or Individual Sections
- Forced Draft Venting
- Power Burner — Oil, Gas, Gas/Oil
- Steam or Hot Water Boilers
- Optional Tankless Coils

Type: Commercial
Construction: Cast Iron
Fuel: Oil, Gas, Gas/Oil-Fired
Input: 686 to 4,663 MBH
Output: 547 to 3,777 MBH
Venting: Forced Draft
Trim: Water or Steam
Combustion: Power Burner

Compare: None

None
Series TCII™ Cast Iron Boilers

- Redesigned for Higher Efficiencies
- Power Burner — Oil, Gas, Gas/Oil
- Steam or Hot Water Boilers
- Forced Draft Venting
- Wet-Base Sections
- Integral Cast Iron Flue Collector
- Hi-Temperature Graphite Port Connectors
- Balanced Return Temperature Design for Better Flow

Type: Commercial
Construction: Cast Iron
Fuel: Oil, Gas, Gas/Oil-Fired
Input: 1,154 to 5,862 MBH
Output: 900 to 4,629 MBH
Venting: Forced Draft
Trim: Water or Steam
Combustion: Power Burner

Compare: 88 V11H
Series PV™ & PP™ Partner® Indirect Water Heaters

- Indirect Tank Sizes – 30 gal to 119 gal
- Long-Lasting Stainless Steel Tank
- Full Lifetime Warranty Against Manufacturing Defects
- Featherweight Design (PV) or Fin Tube Coil Design (PP)
- No Separate Chimney or Burner Needed

Compare: Aqua Plus  Alliance
# 2020 Dates for Boyertown Factory Training

<table>
<thead>
<tr>
<th>Date</th>
<th>Seminar Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 24 &amp; 25</td>
<td>Color of Steam Live Fire All Boilers</td>
</tr>
<tr>
<td>April 21 &amp; 22</td>
<td>Basic Hydronics &amp; DHW Pavilion &amp; PureFire/PBC</td>
</tr>
<tr>
<td>June 2 &amp; 3</td>
<td>Color of Water Pavilion &amp; PureFire/PBC</td>
</tr>
<tr>
<td>June 23 &amp; 24</td>
<td>Color of Water Pavilion &amp; PureFire/PBC</td>
</tr>
<tr>
<td>August 25 &amp; 26</td>
<td>Color of Steam Live Fire All Boilers</td>
</tr>
<tr>
<td>September 22 &amp; 23</td>
<td>New Color of Water Pavilion &amp; PureFire/PBC</td>
</tr>
<tr>
<td>October 20 &amp; 21</td>
<td>New Color of Water Pavilion &amp; PureFire/PBC</td>
</tr>
</tbody>
</table>

**PROFESSIONAL TRAINING SEMINARS**

Boost your industry knowledge and earn continuing education credits® with hands-on training at PB Heat, LLC’s Peerless® Boiler Training Center. Open to professional installers, contractors, engineers and wholesalers, our 2-day training includes our popular Colors of Heat curriculum - on either one-pipe steam or hydronic piping, along with a full-color manual. Contractors receive boiler coupons equal to the cost of the seminar to be used toward the future purchase of Peerless® Boilers.

**UPCOMING SEMINAR DATES:**

**REGISTER NOW FOR 2020 TRAINING DATES!**

- March 24 & 25 – Color of Steam; Live Fire All Boilers – [View Agenda](#)
- April 21 & 22 – Basic Hydronics & DHW; Pavilion™; PureFire® & Series PBC™ – [View Agenda](#)
- June 2 & 3 – New Color of Water; Pavilion™; PureFire® & Series PBC™ – [View Agenda](#)
- June 23 & 24 – New Color of Water; Pavilion™; PureFire® & Series PBC™ – agenda and registration information coming soon!
- August 25 & 26 – Color of Steam; Live Fire All Boilers – agenda and registration information coming soon!
- September 22 & 23 – New Color of Water; Pavilion™; PureFire® & Series PBC™ – agenda and registration information coming soon!
- October 20 & 21 – New Color of Water; Pavilion™; PureFire® & Series PBC™ – agenda and registration information coming soon!

We offer customized technical classes at the factory for groups of eight to twenty-five. Also, don’t forget about our Road Show trainings in the Live Fire Training Trailer for groups of twelve to fifteen. Contact us for more details!
2020 Display Trailer Road Show Training

28’ Display Trailer Training with Six Live-Fire Boilers and Water Heaters
Large Display Trailer Training - Hosted by Distributor, Contractor, Engineer or PB Heat Rep:

- Minimum number of tradespeople = 15 attending the trailer training session, then the session is free

- For 2020: If Training Session includes Pavilion Products, a minimum of 10 tradespeople attending the session will make the whole session free of charge.

- Live-Fire Boilers/Heaters: PV199DV, UT199DV, PR199DV, PBC34, PFW200, WBV03, and PV40 Tank

- Join the Peerless™ Pavilion™ Team! Raffles for a Golf Shirt or Jacket are Held at Each Training and Get a Peerless Hat Just for Joining the Raffle

- For Road Show Trainings Requests Contact Your Local PB Heat Sales Rep or go to PeerlessBoiler.com or PavilionTankless.com.

Road Show and Live-Fire Boyertown Technical Trainings are Great Opportunities to Try Before You Buy
2020 Training Videos and Other Resources on PeerlessBoilers.com

Current Training Video Library has 20 subjects. Many more planned for 2020.

Electronic versions of *The Colors of Heat* are available for download at No Charge. Prices for printed versions are $10-$20 each.

*A NEW Revision of the Color of Water 2.0 with Condensing and Combi Boilers is Scheduled for September 2020!*

Training presentations used in training classes can be downloaded in ppt & pdf format.

Access to training videos and documents is restricted to tradespeople only. A UserID and password are required for access.

*Tradespeople Are Encouraged to Register Online for Their Own UserID*
Peerless® Training & Technical Support

- Technical Services Department with Over 50 Years of Experience at 610-845-6130 Ext 3
- Local Rep Agency Offering Extensive Knowledge and Support
- Nationally Recognized (*Color of Heat*) Training Seminars
- Frequent Addition of Technical Resources & “How To…” Tips
- Live-Fire Training Seminars in Boyertown, PA and Locally on Two Training Trailers with Live-Fire Equipment
- Extensive Technical Info on PB Website, in Addition to “Find an Installer” Feature
THE END

THANK YOU