



# **PUREFIRE®**

## **PF-110 Features and Standard Equipment**

### **Performance:**

- 95.84 Annual Fuel Utilization Efficiency (AFUE)
- Energy Star Qualified
- Design Certified by SCAQMD for Low NOx Operation
- Modulating Burner with 3:1 Turndown Capability
- Factory Equipped for Outdoor Reset Operation
- Dual Temperature Settings for Central Heating and Domestic Hot Water
- Dual Flame Sensing for Reliable Ignition
- Suitable for Firing Natural or LP Gas

### **Construction:**

- Designed, Constructed and Stamped in accordance with ASME Boiler & Pressure Vessel Code, Section IV.
- Design certified for Zero Clearance to Combustible Construction
- Maximum Allowable Working Pressure: 160 PSI
- 304L Stainless Steel Heat Exchanger
- Sealed, Negative Pressure Cabinet
- Removable Jacket Panels
- Suitable for Floor or Wall Mounting
- Leveling Legs
- Factory Equipped with Boiler Service Switch
- 120 Volt Convenience Outlet

### **Exhaust/Air Intake Piping:**

- Suitable for Sealed Combustion Operation
- CPVC Vent Adapter for PVC or CPVC Pipe
- Factory Supplied Vent & Air Inlet Terminations with Screens
- Vent Temperature Sensor

### **Safety Features:**

- 30 PSIG ASME Safety Relief Valve (Loose)
- Pressure/Temperature Gauge (Loose)
- Integrated Connections for Low Water Cut Off or Flow Switch
- Manual Reset High Temperature Limit

### **Codes:**

- Design Certified to ANSI Z21.13
- CSD-1 Compliant
- California Code Compliant
- Massachusetts Code Compliant

### **Control Features:**

- Plain English Status Display
- Factory Equipped for Multiple Boiler Cascade Operation
- Flame Signal Logging Capability
- Freeze Protection
- DHW Tank Warm Hold
- Ramp Delay Step Modulation
- Outdoor Sensor Included
- System Type Presets
- Temperature Boost Function
- Warm Weather Shut Down
- Anti Cycling Logic
- Limited DHW Priority
- DHW Heat Economy Circulation
- Service Notification
- System Test for Manual Control of Firing Rate
- Fault History

### **Combustion System:**

- State of the Art Metal Mesh Burner
- Dual Flame Sensing
- High Energy Spark Ignition

### **Condensate System:**

- Built-in Condensate Trap with Neutralization
- Blocked Condensate Switch
- Highly Visible, Easy Access Condensate Collector

### **Warranty:**

- One Year parts and Labor warranty
- 10 year limited Warranty

# PEERLESS PUREFIRE HIGH EFFICIENCY STAINLESS STEEL BOILER

## SERIES PEERLESS® PUREFIRE® BOILER RATINGS

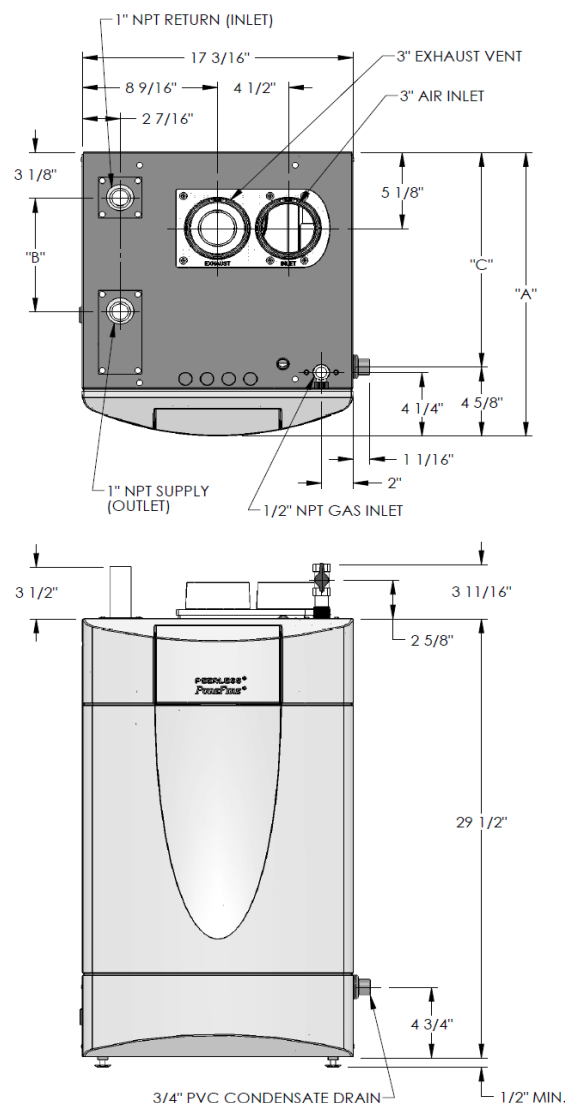
| Boiler | Input (MBH) |     | Heating Capacity (MBH) | Net I=B=R Ratings (MBH) | AFUE (%) |
|--------|-------------|-----|------------------------|-------------------------|----------|
|        | Min         | Max |                        |                         |          |
| PF-110 | 36          | 110 | 101                    | 88                      | 95.84    |

## SERIES PEERLESS® PUREFIRE® DIMENSIONS

| Dimensions (inches) |        |          | Supply Return Connections | Gas Supply Connections | Air Intake & Vent Connection | Relief Valve Size NPT |
|---------------------|--------|----------|---------------------------|------------------------|------------------------------|-----------------------|
| "A"                 | "B"    | "C"      |                           |                        |                              |                       |
| 19-1/16"            | 7-5/8" | 14-7/16" | 1"                        | 3/4"                   | 3"                           | 3/4"                  |

## SERIES PEERLESS® PUREFIRE® CAPACITIES

| Gas Pressure Min./Max (Inch WC) | Total Water Capacity (Gallons) | Minimum Water Flow Rate (40°F ΔT) |                      | Total Combined Length of Air Intake & Vent (Feet) | Shipping Weight (Lbs) |
|---------------------------------|--------------------------------|-----------------------------------|----------------------|---------------------------------------------------|-----------------------|
|                                 |                                | Flow Rate (GPM)                   | Pressure Drop (Feet) |                                                   |                       |
| 3.5   13.5                      | 0.89                           | 5.1                               | 3.74                 | 200                                               | 108                   |



### Optional Equipment:

- ☐ PFA-1 Interface Adapter
  - Alarm Contacts
  - Analog Input
  - Modbus Communications
- ☐ 3" Concentric PVC Vent Termination
- ☐ 3" Stainless Steel Vent Termination
- ☐ Wall Mounting Bracket
- ☐ Floor Mounted Steel Stand
- ☐ Domestic Water Tank Temperature Sensor
- ☐ System Sensor for Multiple Boiler Operation
- ☐ Primary-Secondary Piping Kit
- ☐ Boiler Circulator
- ☐ 50 PSI Safety Relief Valve
- ☐ 100 PSI Safety Relief Valve
- ☐ 150 PSI Safety Relief Valve
- ☐ PC Software
  - Status
  - Fault History
- ☐ Probe-Type Low Water Cutoff
- ☐ Expansion Tank
- ☐ High Performance Air Vent

