



PUREFIRE®

PF-50 Features and Standard Equipment

Performance:

- 95.09 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

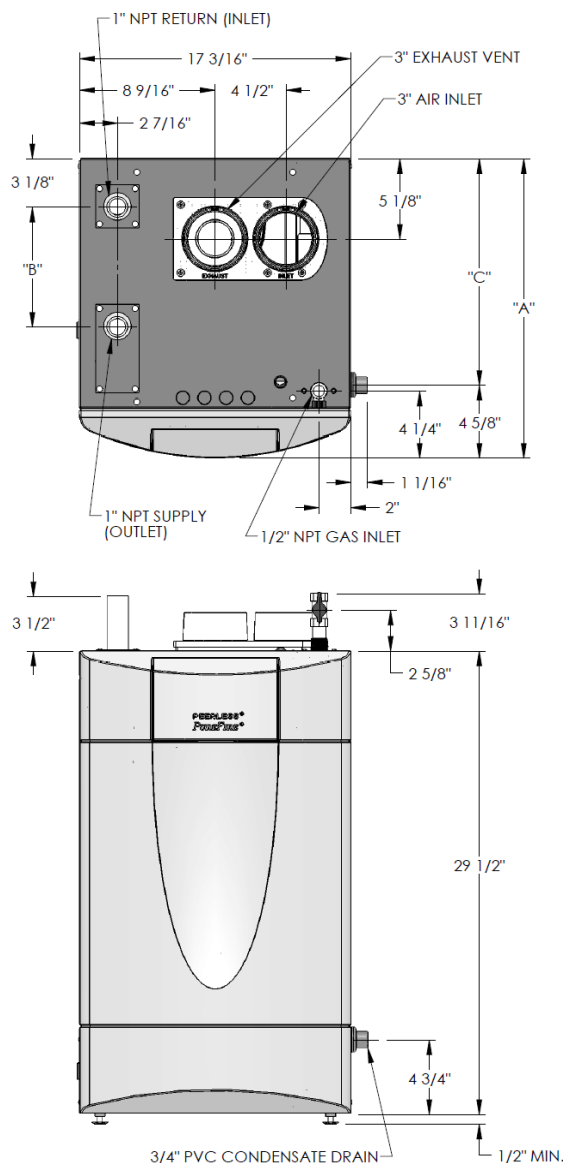
Boiler	Input (MBH)		Heating Capacity (MBH)	Net I=B=R Ratings (MBH)	AFUE (%)
	Min	Max			
PF-50	16	50	46	40	95.09

SERIES PEERLESS® PUREFIRE® DIMENSIONS

Dimensions (inches)			Supply Return Connections	Gas Supply Connections	Air Intake & Vent Connection	Relief Valve Size NPT
"A"	"B"	"C"				
13-1/2"	3-3/4"	8-7/8"	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	0.62	2.3	2.2	200	68



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

