

Advanced Heating  
& Hot Water Systems

# Pioneer

A Trailblazing Appliance that Installs with  
the Ease of a Mid-Efficiency Boiler but has the  
Performance of a High-Efficiency Product



## HIGH MASS

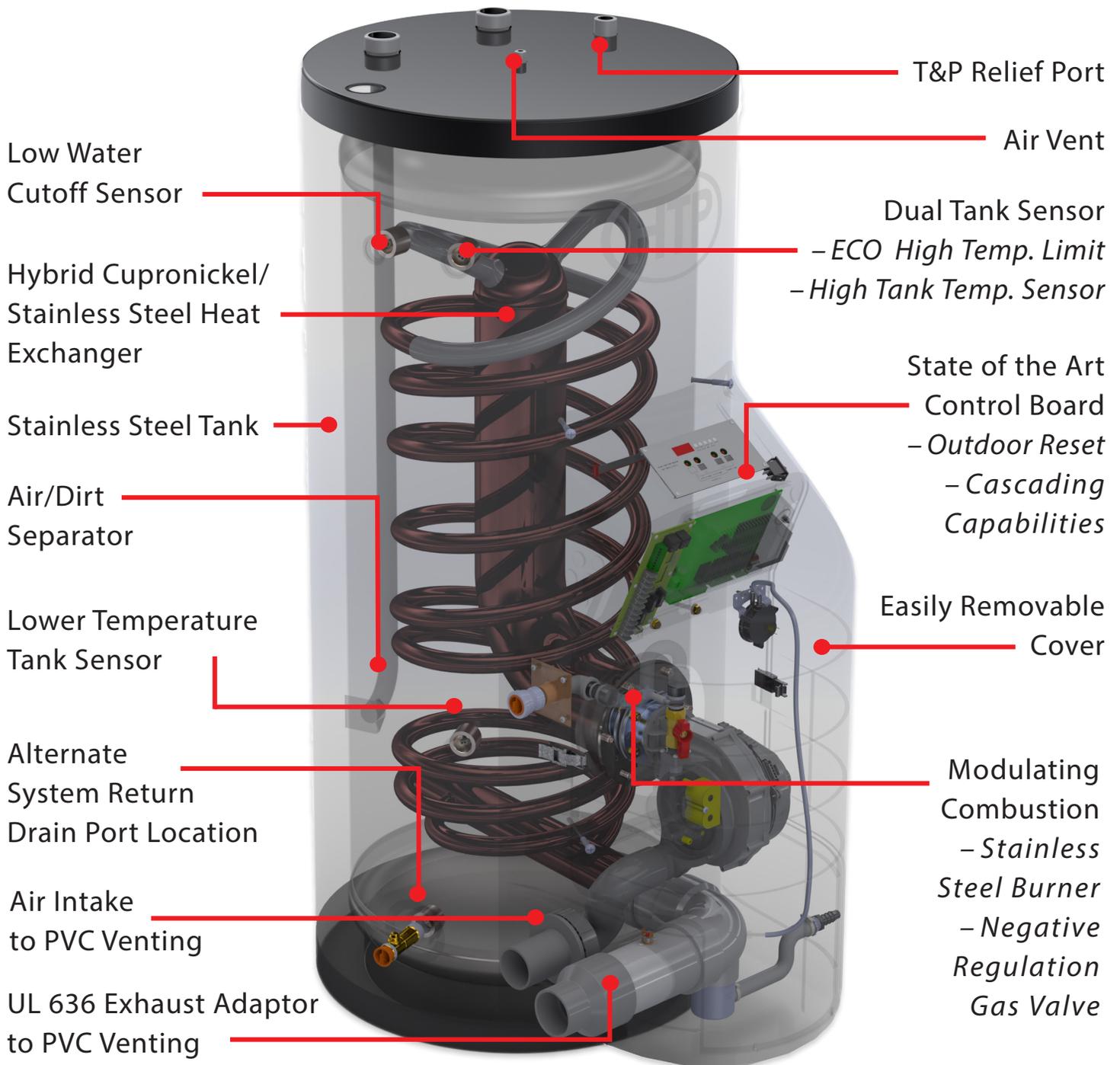
- Modulation provides a 5:1 turndown ratio
- Thermal mass in the stainless steel tank provides a buffer against cycling during low load conditions
- Low maintenance & space saving design
- Single loop installation: the heat exchanger is immersed in water and protected against "flashing" due to low flow condition
- Up to 95% thermal efficiency
- Retro-fit: ideal for replacement systems, minimize the changes to piping; no primary secondary piping needed
- Room air intake, PVC and CPVC venting with combined vent lengths up to 200' in 3" pipe & up to 85' in 2" for the 100 & 130 models
- Built in dirt & air separator
- 12 year limited warranty



A BRAND OF  **ARISTON**  
THERMO USA

Up to 95% Efficient • 5:1 Turndown Ratio • Single Loop Installation

# A Closer Look



## Maintenance and Service Made Easy

Low maintenance heat exchanger design: 5" diameter combustion tube which connects to 1-1/8" down firing spiral tubes. The Pioneer's combustion and control system can be accessed by removing a light, molded cover. Easy access to control board, display and field connection board without the need for tools. The gas valve/burner assembly is detached by removing 6 simple nuts and one end of the flexible gas line to the valve.

**Extremely Durable and Reliable – Minimal Maintenance Required**

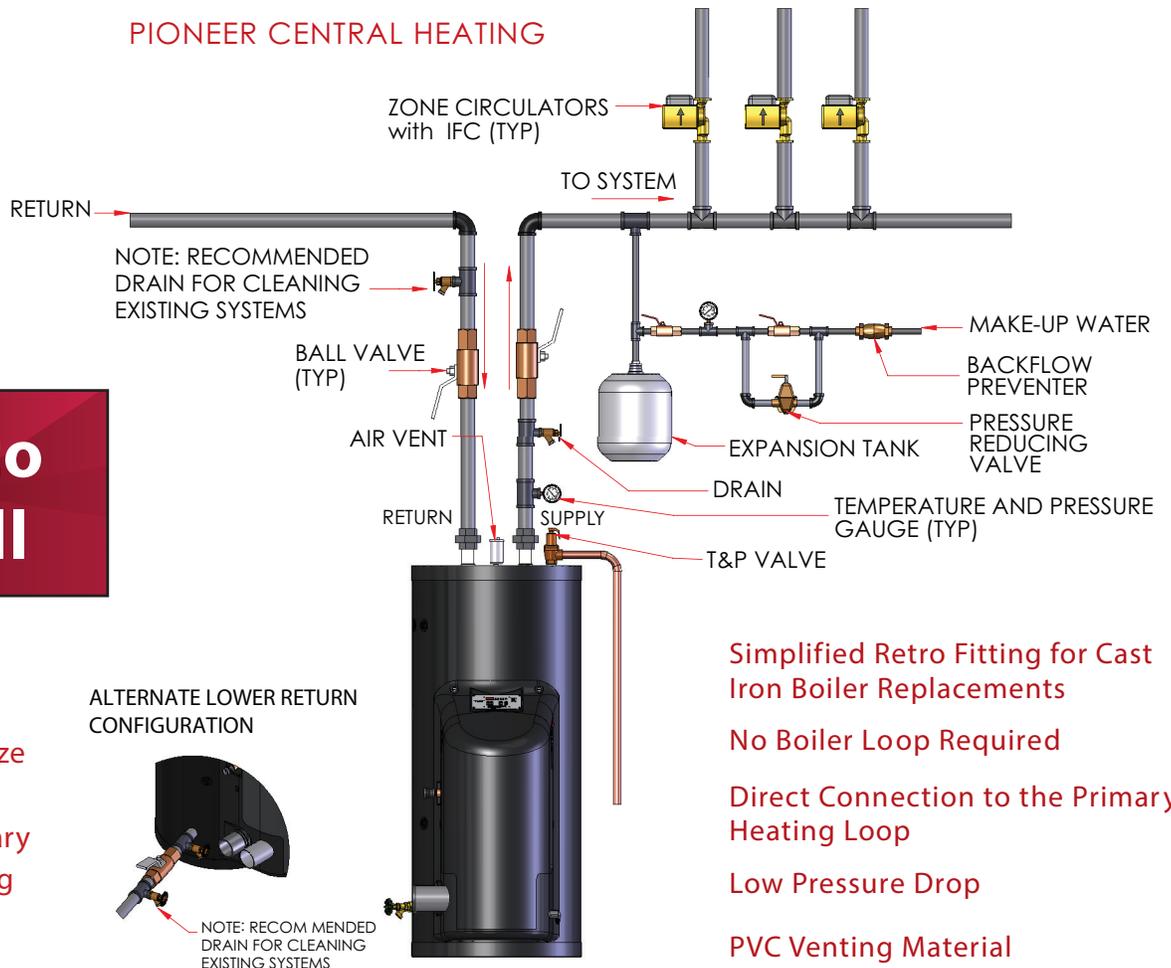
# The Pioneer's Competitive Edge

	Pioneer Boiler	Atmospheric Cast Iron Boilers	Atmospheric Copper Fin Boilers	Power Vented Non-Condensing Cast Iron Boilers	Condensing Low Mass Boilers
Efficiency	★ Up To 95%	≤ 85%	< 85%	≤ 87%	★ ≥ 90%
Modulation	★ YES	NO	NO	NO	★ YES
Vent Category	★ IV	I	I	★ II or IV	★ IV
Required Vent Materials	★ PVC or AL29-4C Stainless Steel	Type "B" Materials or lined chimneys	Type "B" Materials or lined chimneys	AL29-4C Stainless Steel	★ PVC or AL29-4C Stainless Steel
Controls	★ Modulating	On/Off	On/Off or Staged	On/Off or Staged	★ Modulating
Piping Setup	★ Single Loop	★ Single Loop	Primary/Secondary	★ Single Loop	Primary/Secondary
Built in Air/Dirt Separator	★ YES	NO	NO	NO	NO
Thermal Mass for System Stabilization	★ YES	★ YES	NO	★ YES	NO
Eligible for Federal Tax Credit	★ YES	NO	NO	NO	★ YES

The Pioneer meets or exceeds the competition in all 9 of the categories highlighted in the chart above. The cutting-edge features, technological advancements, ease of serviceability, and energy savings make **The Pioneer** a superior alternative to mid-efficiency cast iron and copper fin boilers.

The figures above are based on averages. Data was collected from various competitor sources.

## PIONEER CENTRAL HEATING



**Easy to Install**

**Retro-fit:** ideal for replacement systems, minimize the changes to piping; no primary secondary piping needed

**Simplified Retro Fitting for Cast Iron Boiler Replacements**  
**No Boiler Loop Required**  
**Direct Connection to the Primary Heating Loop**  
**Low Pressure Drop**  
**PVC Venting Material**