PLYMOUTH WATER

NATURAL OR PROPANE GAS-FIRED BOILERS

• Series 2
• Ultra High Efficiency Model

Dunkirk®
America’s Hottest Boiler Value!
An ISO 9001-2000 Certified Company
The Plymouth Water Boiler by Dunkirk offers the best combination of heating comfort, efficiency, reliability... and affordability, making it one of America’s Hottest Boiler Values.

**Heating Efficiency**
With its high efficiency, a Plymouth hot water boiler is an outstanding choice for performance and low operating cost.

**Electronic Ignition**
(Optional) Pilot is lit automatically and stays lit only when needed, eliminating fuel waste.

**Integral Draft Diverter**
Dunkirk utilizes built-in draft diverter technology that is factory designed to protect against carbon monoxide back drafts. Unlike competitor’s diverters erected in-field, Dunkirk eliminates any installation guesswork to ensure your family’s safety.

**Effikal Vent Damper**
Automatically closes when the boiler turns off, preventing heated air from escaping up the chimney. Effikal provides one of the strongest vent damper warranties in the industry.

**Titanium Burners**
Dunkirk’s exclusive high-tech titanium composite burners resist corrosion and oxidation while withstanding more heat than conventional stainless steel or aluminized burners. They provide superior strength and longevity and are backed by a full 3-year warranty, triple the industry standard.

**Cast Iron Sections & Push Nipples**
Dunkirk utilizes cast iron to construct the boiler’s heat exchanger to provide heat transfer, reliability and strength. Since like materials expand and contract in the same proportion during heating and cooling, cast iron push nipples and sections produce stronger, more water-tight seals than steel push nipples or rubber gaskets.

**Easy Maintenance**
Dunkirk’s exclusive "isolating valves" on circulators eliminate the need to drain the system, making replacement quick and easy. Industry standard controls are readily available, making Dunkirk Boilers easy to service.

**Easy Installation**
Surprisingly compact, the Plymouth Water Boiler fits in tight spaces and is supplied assembled, with controls that are accessible and completely wired. Piping is also at hand for easy connection to the system. Controls can be mounted on the right or left side of our boilers, to fit any location requirement.

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**Dunkirk Quality**
Since 1928, American-made Dunkirk Boilers have been leading the industry in value and reliability with innovative designs and premium quality components. Assured performance has placed Dunkirk quality at the top in trusted reliability (99.91%*). Every gas boiler we manufacture is test fired prior to shipment. This boiler is certified by CSA in the United States and Canada; heat exchangers by ASME; and efficiency ratings by the Hydronics Institute.

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**Strongest Warranty in the Industry**
Dunkirk backs all of its residential cast iron water boilers with a full twenty year warranty covering the entire heat exchanger. Most competitor’s warranties cover heat exchanger sections only and most are pro-rated making the homeowner financially responsible.

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* Data on file - Dunkirk Boiler
**FEATURES & BENEFITS**

- **Vent Damper**
  Automatically closes when unit turns off preventing heat loss.

- **Baked Enamel Steel Jacket**
  Factory installed insulation keeps off-cycle heat losses to a minimum in an attractive and compact package.

- **Integral Draft Diverter**
  Provides safety from back drafts and accommodates low ceiling heights.

- **Cast Iron Quality**
  Provides effective heat transfer, reliability and strength.

- **Titanium Burners**
  Dunkirk’s exclusive burners provide greater resistance to corrosion and oxidation. Withstands 15% more heat than conventional burners from competitive units.

- **Aquastat Control**
  The brain of the boiler... controls the operation of the burner system, fuel delivery, circulator, and vent damper. It also monitors water temperature to ensure safe, reliable operation.

- **Isolation Valves**
  Exclusive components that are part of the circulating pump which eliminates the need to drain the system when replacing the pump thereby reducing service time.

- **Taco Circulating Pump**
  (Grundfos optional)
  Included with the boiler and circulates hot water throughout the system to provide heat quickly and evenly. (Some models may be shipped for supply-side pumping)

- **Electronic or Standing Pilot Ignition**
  Electronic pilot automatically lights the pilot when needed, eliminating fuel waste.

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**PLYMOUTH WATER STANDARD EQUIPMENT**

- Assembled boiler with insulated jacket, factory crated
- Integral draft diverter — built into jacket
- Combination high limit control and circulator relay
- Flame rollout safety shutoff (fuse link) and manual, reset blocked vent safety shutoff, with spare fuse link included.
- Combination pressure/temperature gauge (packed separately)
- 1¾” Taco (or Grundfos) circulator pump with isolation (ball) valves (shipped separately for field mounting)
- ¾” boiler drain valve
- 30 lb. ASME relief valve
- Vent damper
- Completely installed and wired gas control system with burners and manifold, consisting of:
  - Titanium composite burners
  - Automatic redundant combination gas valve, 24 volt
- **Electronic Ignition Only**
  - Intermittent Pilot Control, 100% shut-off continuous re-try
  - Combination pilot burner/electrode/flame sensor

**OPTIONAL EQUIPMENT**

- Propane-fired conversion kit
- Combustible floor plate — 14614031 for 2-6 section; 14614032 for 7-9 section
- Fill-Trol #110 for 2-5 Sections
- Fill-Trol #111 for 6-9 Sections

**Standing Pilot Only**

- Pilot burner and thermocouple
### Plymouth Water Series 2

**Gas-Fired Hot-Water Boilers**

<table>
<thead>
<tr>
<th>Boiler Model Number</th>
<th>Number of Sections</th>
<th>I = B = R Rating MBH</th>
<th>Heating Capacity MBH</th>
<th>Net I = B = R Rating MBH</th>
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*This size not available in propane*

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**Plymouth Ultra Ultra High Efficiency Model**

**Gas-Fired Hot-Water Boilers**

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<thead>
<tr>
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<th>I = B = R Rating MBH</th>
<th>Heating Capacity MBH</th>
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### Notes

- The ratings marked Net I=B=R Ratings indicate the amount of remaining heat input that can be used to heat the radiation or terminal units. The Net I=B=R Ratings shown are based on an allowance of 1.15 in accordance with the factors shown in the I=B=R Code as published by The Hydronics Institute.
- Selection of boiler size should be based upon Net I=B=R Rating being equal to or greater than the calculated heat loss of the building.
- Consult manufacturer before selecting a boiler for installations having unusual piping and pick-up requirements.
- These boilers may be installed on combustible flooring when placed on combustible floor plate.
- These gas-fired boilers are sectional cast iron boilers design certified by CSA in the U.S. and Canada (Series 2 only) for use with natural gas and propane gas. They are constructed and hydrostatically tested for a maximum working pressure of 50 psi in accordance with A.S.M.E. (American Society of Mechanical Engineers) Boiler And Pressure Vessel Code Section IV standards for cast iron heating boilers. They are capacity rated in accordance with the code of The Hydronic Institute.