

# PLYMOUTH XTREME

NATURAL OR PROPANE  
GAS-FIRED WATER BOILERS

- *Extreme Value, Performance  
& Serviceability*



**Dunkirk®**

*America's Hottest Boiler Value!*

An ISO 9001-2000 Certified Company

# PLYMOUTH XTREME

NATURAL OR PROPANE GAS-FIRED WATER BOILERS

## • Efficiency as high as 81.6%

The Plymouth Xtreme 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 Xtreme boiler is an outstanding choice for performance and low operating cost.

### Electronic Ignition

(Option) 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.

### Enclosed Controls

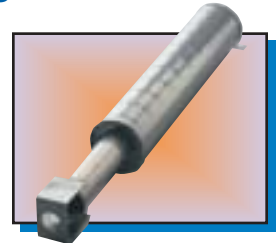
The operation and safety controls for the Plymouth Xtreme are located underneath the jacket. Enclosed controls offer an additional level of consumer safety and minimize the possibility of damage during installation and operation.



Enclosed controls feature a wire harness with Molex Plugs

### Titanium Burners

Dunkirk's exclusive high-tech titanium composite burners resist corrosion and oxidation while withstanding more heat than conventional stainless steel or aluminum 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. Servicing controls is simple with our plug-in wire harness. Simply unplug one control and plug in a new one. This feature not only prevents miswiring but also adds an additional safety factor. The union on the enclosed gas valve makes removal and maintenance easy.

### Easy Installation

Shipped assembled, the surprisingly compact Plymouth Xtreme can be installed in tight spaces. The enclosed controls are easily accessed and less likely to be damaged during installation. The circulator ships loose for field mounting on the supply or return.

### 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.



### 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.



\* Data on file - Dunkirk Boiler

## FEATURES & BENEFITS

### Vent Damper

Automatically closes when unit turns off preventing heat loss.

### Status Indicator Lights

Status indicator lights on the front panel indicate status of boiler operation. If service is required, status indicator lights simplify the troubleshooting process.

### Integral Draft Diverter

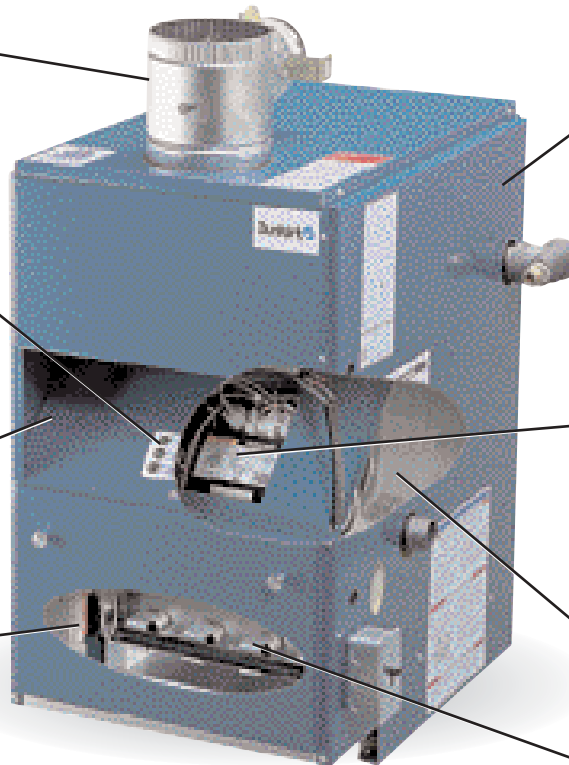
provides safety from back drafts and accommodates low ceiling heights.

### Electronic or Standing Pilot Ignition

Electronic pilot automatically lights the pilot when needed, eliminating fuel waste.

### Circulating Pump

(Grundfos optional) Included with the boiler circulates hot water throughout the system to provide heat quickly and evenly.



### Baked Enamel Steel Jacket

Factory installed insulation keeps off-cycle heat losses to a minimum in an attractive and compact package.

### Enclosed 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. Molex plugs on the wiring harness make routine maintenance easy.

### 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

### Full Port Isolation Valve



Full Port Isolation Ball Valves offer a full 1-1/4" passage to maximize boiler water flows. An exterior handle clearly indicates the valve position. The ball valves allow the boiler piping to be switched from threaded pipe to copper piping, without the need for additional fittings, saving the installer valuable time!

## PLYMOUTH XTREME 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)
- 1 1/4" Taco (or Grundfos) circulator pump with isolation (ball) valves (Note: Pump ships loose for field mouting)
- 3/4" boiler drain valve
- 30 lb. ASME relief valve
- 24 volt transformer
- Service Switch (power on/off)
- 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

## OPTIONAL EQUIPMENT

- Propane gas-fired boilers
- Propane-fired conversion kit
- Combustible floor plate — 14614031 for 3-6 section; 14614032 for 7-9 section
- Fill-Trol #110 for 3-6 Sections
- Fill-Trol #111 for 6-9 Sections

### Electronic Ignition Only

- Combination pilot burner/ electrode/flame sensor

### Standing Pilot Only

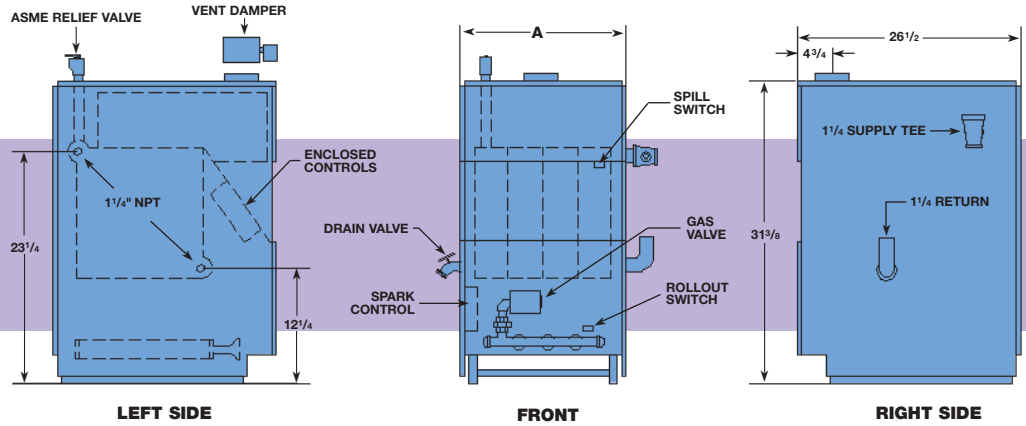
- Pilot burner and thermocouple

**Height Dimensions:**

To Supply (B)  
**Xtreme . . . . . 23 1/4"†**

To Jacket Top (C) \*  
**Xtreme . . . . . 31 3/8"†**

DESIGN CERTIFIED FOR  
 NATURAL & PROPANE GASES



**Plymouth Xtreme GAS-FIRED HOT-WATER BOILERS**

**RATINGS & CAPACITIES**

BOILER MODEL NUMBER		NUMBER OF SECTIONS	† NATURAL GAS & PROPANE GAS			DIMENSIONS (INCHES)		A.F.U.E.	
INTERMITTENT IGNITION WITH VENT DAMPER	STANDING PILOT WITH VENT DAMPER		AGA INPUT MBH**	HEATING CAPACITY MBH**	NET I=B=R RATING MBH**	FLUE DIAMETER	"A" WIDTH	INTERMITTENT IGNITION WITH VENT DAMPER	STANDING PILOT WITH VENT DAMPER
PWX-3E	PWX-3V	3	70	57	50	5	11 1/4	81.6	80.4
PWX-4E	PWX-4V	4	105	85	74	6	14 1/2	81.5	80.4
PWX-5E	PWX-5V	5	140	113	98	6	17 3/4	81.3	80.3
PWX-6E	PWX-6V	6	175	142	123	7	21	81.1	80.2
PWX-7E	PWX-7V	7	210	170	148	7	24 1/4	81.0	80.1
PWX-8E	PWX-8V	8	245	198	172	7	27 1/2	80.8	80.0
PWX-9E	PWX-9V	9	280	226	197	7	30 3/4	80.7	80.0

\* Add 5-1/2" to height for Vent Damper  
 \*\* MBH = 1,000 Btuh  
 Btuh = British Thermal Unit Per Hour

† For Altitudes above 2,000 ft. ratings should be reduced at the rate of 4% for each 1,000 ft. above sea level. Canada only - Boilers may be used at high altitude by using a certified field conversion kit, resulting in a 10% derate. In Canada, PWX Series boilers firing propane gas are not allowed to use vent dampers. Heating Capacity is based on D.O.E (Department of Energy) test procedure.

New York City MEA Number 39-86E VOL.IV

- 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.

**DUNKIRK QUALITY HEATING. AMERICA'S HOTTEST BOILER VALUE!** Dunkirk hydronic boilers lead the industry in value, with premium quality design and componentry. In fact, some of the most respected "brand name" boilers are produced by Dunkirk. These major manufacturers selected Dunkirk hydronic boilers for the same basic reasons you should: superb quality and unmatched value. Just compare our quality to cost ratio, and your boiler choice will become perfectly clear.

Specifications and dimensions are subject to change without notice.  
 Made in America by American Craftsmen.



Since 1928. America's Hottest Boiler *Value.*  
 85 MIDDLE RD DUNKIRK, NY 14048  
 716/366-5500 FAX 866/432-7329  
 e-mail: heating@dunkirk.com  
 web site: www.dunkirk.com

**USA Homeowner Assistance: 866-847-6656**  
**USA Contractor Assistance: 800-325-5479**

An ECR International Brand

An ISO 9001-2000 Certified Company

