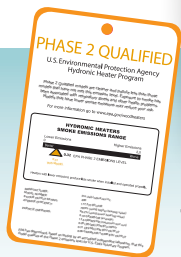




EMPYRE

PRO SERIES

High Efficiency Wood Furnace



EPA WHITE
TAG QUALIFIED

PATENT PENDING

- UP TO 90% EFFICIENCY
- CUT FUEL REQUIREMENTS IN HALF
- EPA WHITE TAG QUALIFIED
- GASIFICATION TECHNOLOGY
- INDOOR/OUTDOOR INSTALLATION
- LOW EMISSIONS
- DUAL HOOKUP
- SIMPLE CLEANING





PATENT PENDING

The *Empyre Pro Series* is leading the way in new **patent pending high efficiency clean burning heating technology**. For you, this efficiency means savings all around. The *Empyre Pro Series* burns cordwood, a renewable resource and easily accessible in many areas; the *Empyre Pro Series* makes splitting wood obsolete. With the newly designed, **smaller firebox requiring less wood**, it maintains burn times comparable to conventional outdoor furnaces at the same heat output.

Clean burning means the furnace does most of the work. **Ash cleanup is virtually non existent** with the *Empyre Pro Series*. The built-in cleaning portals makes brushing out fly ash from the gasification chamber and flues a quick and simple process. The superior heat of the gasification process **eliminates buildup** in the chimney and reduces moisture, preventing rust.

The Phase 2 white tag identifies furnaces qualified by the EPA (Environmental Protection Agency) Hydronic Heater Program to burn approximately **90% cleaner**. The *Empyre Pro Series* is EPA White Tag Qualified.

EPA White Tag Qualified

PHASE 2 QUALIFIED

U.S. Environmental Protection Agency Hydronic Heater Program

Phase 2 Qualified models are cleaner and pollute less than those models that have not met this emission level. Exposure to smoke has been associated with respiratory illness and other health problems. Models that have lower smoke emissions may reduce your risk.

For more information go to www.epa.gov/woodheaters

HYDRONIC HEATERS SMOKE EMISSIONS RANGE



Heaters with lower emissions produce less smoke when installed and operated properly.

MANUFACTURER: Pro-Fab Industries Inc.
MODEL NUMBER: 400
8-HOUR OUTPUT RATING: 177,333 BTU/HR
AVERAGE EFFICIENCY: 78.9% (using higher heating value)
90.2% (using lower heating value)
PARTICLE EMISSIONS: 6.70 GRAMS/HR (average)
13.6 GRAMS/HR (maximum test run)
0.20 LBS/MILLION BTU INPUT
0.31 LBS/MILLION BTU OUTPUT
0.06 GRAMS/HR/10,000 BTU OUTPUT

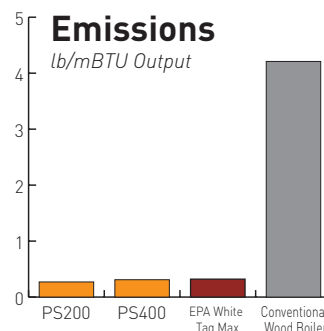
EPA has determined, based on testing by an accredited independent laboratory, that this model qualifies at the Phase 2 emissions level for U.S. EPA's Voluntary Program.

EPA 8 hour output rating test based on 10 lbs of wood/ cubic foot of firebox, which means that this rating is based on a furnace that is only partially full.

*Heat output and efficiency may vary based on wood type, quality and moisture.

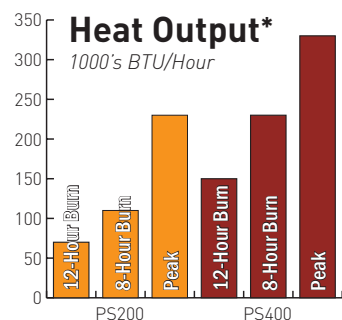
90% CLEANER BURNING!

White Tag qualified hydronic boilers reduce emissions by more than 90% over conventional wood furnaces. The *Empyre Pro Series* emission levels are well below EPA standards, protecting the environment for a greener future!



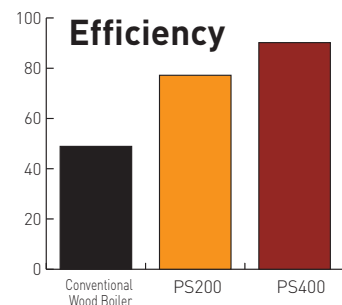
330,000 BTU HEAT OUTPUT!

With models ranging from 70,000-330,000 BTU/hour, install the perfect boiler for your heating needs. A few extra logs will keep you warm and cozy on those extra cold winter days.



90% EFFICIENCY!

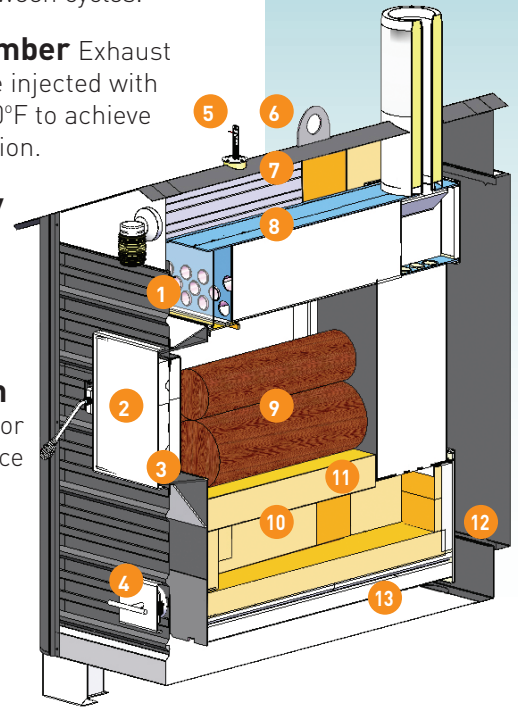
Cut your fuel requirements and loading time in half with an *Empyre Pro Series*. By burning both the wood and the gases released from the wood, the *Empyre Pro Series* can produce twice the heat from the same quantity of wood.



Empyre Pro Series Up Close

- 1 Flues** Transfer heat to the water jacket quickly and efficiently; simple to clean from rear clean out port.
- 2 Loading Door** Extra large size for ease of loading and heavy duty construction for long life.
- 3 Full Length Exhaust Curtain** Keeps combustion gases from escaping when opening the loading door.
- 4 Ash Door** Insulated door makes ash cleanup from the gasification chamber simple.
- 5 Water Level Indicator** Monitor furnace water levels at a glance.
- 6 Easy Lift Hook** Installation is simple with the top lifting hook and forklift guides.
- 7 Seamless Roof** Prevents rust and corrosion by keeping moisture out of the furnace.
- 8 Water Reservoir** Stores heated water to heat your home by a forced air or radiant heating system.

- 9 Primary Burn Chamber** Wood in the sealed firebox burns whenever air is introduced and does not smolder between cycles.
- 10 Secondary Burn Chamber** Exhaust gases from the firebox are injected with air and burn at up to 2,000°F to achieve nearly 100% fuel combustion.
- 11 Fire Brick Refractory** Stores heat in the firebox for hours, reigniting the wood quickly on a demand for heat.
- 12 Durable Construction** Solid steel workmanship for many years of quality service
- 13 Premium Bat Insulation** Will not oxidize or shrink; keeps heat inside the furnace and the outside safe to touch.

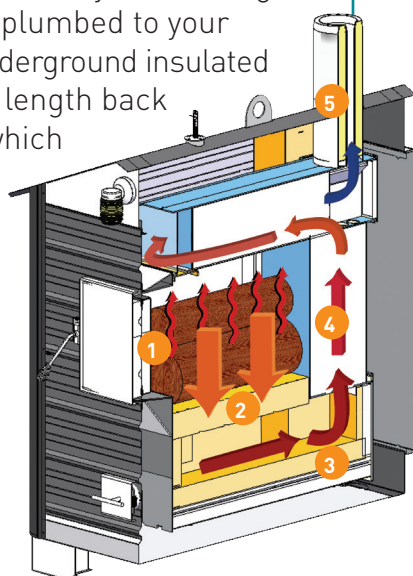


How it Works

Combine the simplicity and safety of a conventional furnace with the savings and technology of a high efficiency furnace. The *Empyre Pro Series* can provide heat to your house, greenhouse, pool, shop or other buildings.

Heat from the *Empyre Pro Series* dual burn chamber is transferred to the furnace's built-in water jacket through a series of flues. Heated water is plumbed to your home's heating system through underground insulated pipes. The *Empyre Pro Series'* full length back door allows for plenty of access which makes plumbing simple.

In a house, the heated water connects directly to the radiant or forced air heating system through a heat exchanger. Similarly, the *Empyre Pro Series* is capable of heating all domestic hot water through a sidearm heat exchanger installed on the hot water tank.



Gasification

The *Empyre Pro Series* uses a process called wood gasification to produce highly efficient combustion in the furnace's dual burn chambers.

- 1 Firebox** wood burns from the bottom up, drying the top layer; the fire brick lining absorbs heat and maintains burn chamber temperatures to reignite quickly on demand.
- 2 Exhaust** is forced down into the lower burn chamber.
- 3 Lower Burn Chamber** exhaust burns at up to 2,000°F (1093°C).*
- 4 Flues** exhaust air escapes through multiple heat exchange flues running through the water jacket, transferring heat quickly and efficiently.
- 5 Chimney** exhaust has cooled to 350°F (177°C)* by the time it exits the chimney.

*May vary based on fuel type, burn rate and other conditions.

TESTIMONIAL



Empyre Pro Series 400 Saves \$4,000.⁰⁰/yr 3,800 FT² HOME & 3,000 FT² SHOP IN BUCKHORN, ONTARIO.

Ralph B. purchases 12-13 cords of wood to heat his 3,800 ft² home and 3,000 ft² shop in Buckhorn, Ontario. Switching from oil, which had cost him \$6,000.⁰⁰/yr, to wood, which costs \$1,800.⁰⁰/yr, saves him more than \$4,000.⁰⁰ annually on heating costs.

RALPH'S EMPYRE PRO SERIES TOP 5

- 1** 12 Hour Burn Times
- 2** Burn Full Log Lengths
- 3** Wood Pile Outside
- 4** Easy Ash Removal
- 5** Consistent Hydronic Heat Throughout Shop & House



Pro Series 200

Pro Series 400

Sizes and Models

	200		400	
Heat Output (Peak)*	230,000 BTU/hr	67.4 kWh	330,000 BTU/hr	96.7 kWh
Heat Output (8 Hour Burn)*	110,000 BTU/hr	32.2 kWh	230,000 BTU/hr	67.4 kWh
Heat Output (12 Hour Burn)*	70,000 BTU/hr	20.5 kWh	150,000 BTU/hr	44.0 kWh
Heating Area	2,000 to 4,000 Sq. Ft	186 m ² to 372 m ²	6,000 to 8,000 Sq. Ft	557 m ² to 743 m ²
Width	48"	122 cm	49"	124 cm
Length	73"	185 cm	81"	206 cm
Height	81"	206 cm	96"	244 cm
Shipping Weight	2,100 lb	953 kg	2,500 lb	1,134 kg
Chimney Size	6"	15 cm	8"	20 cm
Door Size	18" X 18"	46 x 46 cm	20" x 24"	51 x 61 cm
Firebox Volume - W x H x L	23" x 22" x 31"	58 x 56 x 79 cm	28" x 33" x 40"	71 x 84 x 102 cm
Water Capacity	75 US gal	284 L	115 US gal	435 L
Maximum Log Length	26"	66 cm	34"	86 cm
Maximum Log Diameter	6"	15 cm	7"	18 cm
Limited Warranty	10 Years		10 Years	
EPA White Tag Phase 2 Qualified	Yes		Yes	

*Heat output may vary based on wood type, quality and moisture.

Pro-Fab Industries Inc., founded in 1989, is North America's premier designer of alternative heating products. With five manufacturing facilities across three countries, *Pro-Fab Industries* has the widest range of EPA qualified clean burning units on the market.



Manufactured by:
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888-933-4440
www.profabgroup.com

Your **EMPYRE** Dealer

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