

Elite EMPYRE

Comfort is a household word



PHASE 2 QUALIFIED

U.S. Environmental Protection Agency
Hydronic Heater Program

Phase 2 Qualified models are cleaner and produce less than those models that have not met this standard level. Emissions for models that have been associated with respiratory distress and other health problems. Models that have been made emissions may reduce your risk.

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



**Empyre Elite High Efficiency Indoor
Wood Gasification Boiler. Model 100.**

Cleaner Heat For a Greener Future.

• EPA White Tag • Renewable Fuel • CSA/UL Approved • Quadri-Fuel Equipped • Gasification Technology •



“Great unit! This will fill the market needs for an indoor wood boiler. The best feature is that you can load it with no smoke coming out the door. It exceeds my expectations on wood consumption and burn time. Plus, cleaning is simple!”

-Scott Freier, Dealer,
Freier's Electric & Heating,
Inc., Wisconsin



Off the Grid

Give yourself ultimate flexibility with the **Empyre Elite**. Wood is a local, renewable, economical and easily accessible fuel in many regions, making it an ideal replacement for imported non-renewable fossil fuels. Requiring only 1.5 amps of electricity (at 120 V) for normal operation, the **Empyre Elite** is easy to hook up to a solar or wind powered electric generator. In case of a power outage, the furnace maintains heat in the firebox for extended periods and will not boil over. The **Empyre Elite's** Quadri-Fuel feature also allows you to use the most economical fuel and to easily transition from one fuel to another.

**Off the grid security
On the grid comfort**



Wood Heating

The Way of the Future.

Empyre Elite takes the lead in a new generation of indoor wood heating. EPA White Tag approved to reduce emissions and adding new safety components and a more compact design, **Empyre Elite** builds on the proven features of Pro-Fab Industries' **Empyre** outdoor wood boiler line, the most trusted name in the heating industry. Achieving up to 90%* efficiency and reducing emissions by more than 90%,* it delivers clean heat and can reduce your fuel costs by 50% over a conventional wood furnace.

*Varies based on fuel type and quality

Empyre Elite indoor wood boilers deliver all the comfort and convenience of conventional furnaces while protecting the environment for the next generation to enjoy. EPA White Tag approved **Empyre Elite** furnaces combine high efficiency heating technology and low emission smoke-free combustion with a readily accessible and renewable fuel to make wood the heating choice of the future.

Comfort

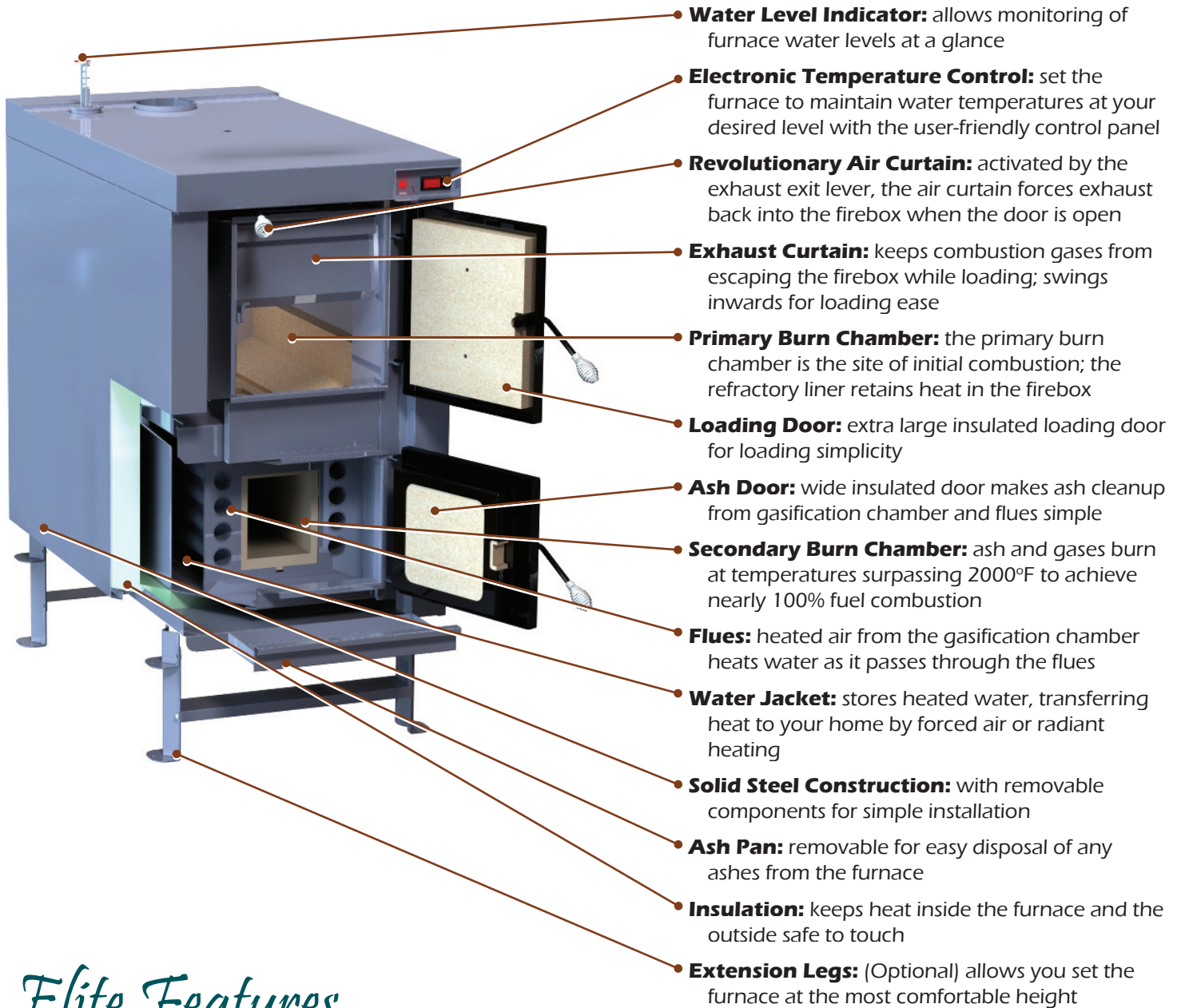
With self-regulating combustion controls, the **Empyre Elite** maintains constant water temperatures. This heat is available on demand and does not fluctuate with the fire's intensity, ensuring stable and comfortable heat in your home without continual stoking. The refractory lining retains heat to automatically reignite fuel when necessary. Don't sacrifice comfort for a cleaner environment. Have them both with the **Empyre Elite**.

Efficiency

Pro-Fab Industries' dual combustion downdraft gasification system makes **Empyre Elite** one of the most efficient wood furnaces on the market. EPA White Tag approved, **Empyre Elite** reduces emissions by 90% compared to traditional boilers and achieves up to 90%* efficiency by burning both the wood and the gases released by the wood. High efficiency means cleaner burning, lower fuel consumption and less work all around. The **California Energy Commission** and the **US Environmental Protection Agency (EPA)** recommend gasification for cleaner combustion and reduced emissions.

Security

Empyre Elite furnaces exceed CSA/UL safety standards for indoor wood furnaces. The built-in **Revolutionary Air Curtain** prevents gases from escaping into your home when the loading door is opened. A dual lock system allows you to restrict access to the firebox and gasification chamber, and the well-insulated exterior keeps the heat inside the furnace and the outside safe to touch.



- **Water Level Indicator:** allows monitoring of furnace water levels at a glance
- **Electronic Temperature Control:** set the furnace to maintain water temperatures at your desired level with the user-friendly control panel
- **Revolutionary Air Curtain:** activated by the exhaust exit lever, the air curtain forces exhaust back into the firebox when the door is open
- **Exhaust Curtain:** keeps combustion gases from escaping the firebox while loading; swings inwards for loading ease
- **Primary Burn Chamber:** the primary burn chamber is the site of initial combustion; the refractory liner retains heat in the firebox
- **Loading Door:** extra large insulated loading door for loading simplicity
- **Ash Door:** wide insulated door makes ash cleanup from gasification chamber and flues simple
- **Secondary Burn Chamber:** ash and gases burn at temperatures surpassing 2000°F to achieve nearly 100% fuel combustion
- **Flues:** heated air from the gasification chamber heats water as it passes through the flues
- **Water Jacket:** stores heated water, transferring heat to your home by forced air or radiant heating
- **Solid Steel Construction:** with removable components for simple installation
- **Ash Pan:** removable for easy disposal of any ashes from the furnace
- **Insulation:** keeps heat inside the furnace and the outside safe to touch
- **Extension Legs:** (Optional) allows you set the furnace at the most comfortable height

Elite Features



The **Empyre Elite** offers simplicity and flexibility with its **Quadri-Fuel** option. Electric, oil and gas backup options allow you to easily transition from one fuel to another based on cost and convenience. You can also set your furnace to switch from wood to a backup fuel when you plan to be away for a few days. Backup fuel options can be installed using your existing system or set up side by side in a new installation.

Simple Operation & Maintenance

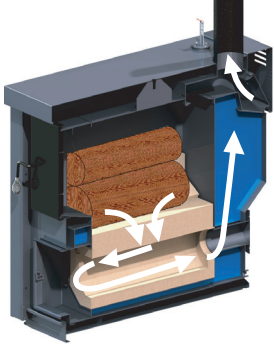
Empyre Elite is a revolutionary indoor wood heating system. Splitting wood is obsolete with a large firebox operating best when filled with logs a few inches shorter than the length of the firebox. The wide firebox door makes loading quick and simple. With new clean burning technology, the **Empyre Elite** does most of the work - combustion and cleaning. When necessary, ash is easily swept from the lower burn chamber into the furnace-wide ash pan. The **Empyre Elite's Easy Flue** design and the flue cleaning rod (included) make sweeping out the flues a quick and simple process. The **Empyre Elite** is easy to integrate into practically any home's existing heating system. It can be installed into a 5" or 6" chimney liner and connects to floor heat or existing duct work with a water to air heat exchanger.



Cleaner Heat For a Greener Future.

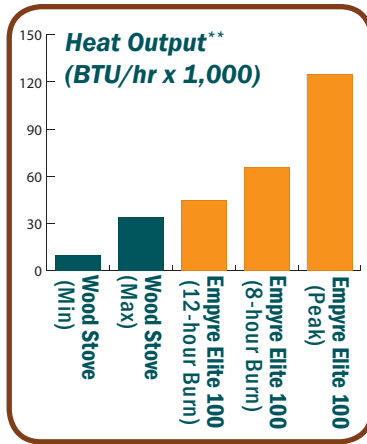
How it Works

Empyre Elite uses a process called wood gasification to produce highly efficient combustion in its dual burn chamber. Wood in the firebox burns from the bottom up, drying the top layer of wood and forcing gases and exhaust into the lower burn chamber. In the lower chamber, temperatures as high as 2000°F burn off all the gases. The fire brick lining in both burn chambers absorbs the heat and maintains burn chamber temperatures for consistent combustion. This high temperature gasification significantly lowers emissions, prevents creosote buildup and minimizes ash buildup in the furnace. After passing through the burn chamber, exhaust air is forced through multiple flues running through the water jacket, heating the water quickly and efficiently.



Choosing the Right Furnace

Wood burning appliances are used for two main purposes: heating and aesthetics. When choosing a wood burning appliance as a primary heat source for your home or other buildings, it is essential to choose a furnace that produces sufficient heat. Boilers are designed to serve as the primary heat source, while wood stoves generally serve as secondary heat sources. EPA certified wood burning stoves average heat outputs range from 10,000 to 34,000 BTU/hr. Wood burning gasification boilers provide a safer and more dependable heat. At an average of 66,000 BTU/hour at an 8-hour burn* or 45,000 BTU/hour for a 12-hour burn,* the **Empyre Elite** produces more than enough heat for the average medium sized North American home. In particularly cold weather, the **Empyre Elite** can produce up to 125,000 BTU/hour,* keeping you warm and cozy, even in the coldest weather.



**Empyre Elite data based on Empyre Elite testing and may vary based on fuel type and quality; wood stove min. and max. averages based on published data on EPA approved wood stoves

Furnace Specifications - Model 100

Heat Output (Peak)*	125,000 BTU/hr	37.0 KW/hr
Heat Output (8 Hour Burn)*	66,000 BTU/hr	19.3 KW/hr
Heat Output (12 Hour Burn)*	45,000 BTU/hr	13.2 KW/hr
Furnace Width	28 in	71 cm
Furnace Height	48 in	122 cm
Furnace Length	52 in	132 cm
Firebox Dimensions	19w x 21h x 28d in	48w x 53h x 71d cm
Firebox Volume	6.1 ft ³	173 L
Loading Door Opening	16 x 14 in	41 x 36 cm
Flue Collar Diameter	6 in	15 cm
Minimum Clearance to Combustibles		
Flue Pipe/Side & Back Wall	12 in	31 cm
Front	48 in	122 cm
Ceiling	24 in	61 cm
Log Length	24 in	61 cm
Log Diameter	6 in	15 cm
Furnace Weight	945 lb	429 kg
Water Capacity	60 US Gal.	227 L

Features

4.5 KW Electric Elements	1 to 4 Elements (Optional)
Gas or Oil Burner	Optional
Flue Cleaning Brush	Included
Ash Rake	Included
Extension Legs (7"/18 cm)	Optional

*Results may vary based on fuel type, moisture and quality. Product specifications and appearance subject to change.

Local Long Term Service

Our extensive dealer network ensures that you have the support you need when you need it. Your local dealer will help you select the right furnace for your home and region and install it correctly. But service does not end there. Dealers are always available for training and assistance with furnace operation and maintenance.

We stand behind our customers and dealers with an outstanding 10 Year Limited Warranty on the **Empyre Elite**. We provide parts and service quickly from our central North American service facility and fully stocked warehouse.

Buy long term comfort and quality with the **Empyre Elite**.

YOUR AUTHORIZED EMPYRE ELITE DEALER



PRO-FAB
INDUSTRIES INC.



888.933.4440 www.profabgroup.com

Pro-Fab Industries is North America's leading designer and manufacturer of alternative energy heating systems and is committed to protecting our environment. The Pro-Fab family of furnaces and boilers incorporates state of the art engineering and technology, setting it apart from any other product line in the marketplace.