



The Future of Wood Heating is Here...

EMPYRE Elite XT

HIGH EFFICIENCY GASIFICATION WOOD BOILERS



PATENT PENDING



EPA WHITE
TAG QUALIFIED



www.vestaawards.com

THE LEADERS IN CLEAN BURNING

www.EmpyreWoodFurnace.com | 888-933-4440

The EPA White Tag Qualified Model shown is the Empyre Elite XT 200

Obadiah's • 406-300-1776

CLEAN BURNING GASIFICATION TECHNOLOGY SAVES MONEY AND THE ENVIRONMENT



The **Empyre Elite XT** wood boilers **revolutionary design** delivers all the comfort and convenience of a conventional furnace while protecting the environment. **EPA White Tag qualified Empyre Elite XT** boilers combine high efficiency heating technology and low emission **smoke free combustion**.

With new **clean burning technology**, the **Empyre Elite XT** does most of the work. When necessary, ash is easily swept from the lower burn chamber into the furnace-wide ash pan. **Splitting wood is obsolete** with a large firebox operating at its best with large diameter logs a few inches shorter than the length of the firebox. The outer **Weather-Guard** doors and wide interior firebox door makes loading a quick, simple and safe process.

The **Empyre Elite XT's** air curtain design allows for **smoke free loading**. The **Easy Flue** design and the flue cleaning rod (included) makes sweeping out the flues quick and simple. **Built rugged** for all installations, the **Empyre Elite XT** is versatile and can be **easily integrated** into practically any home's existing heating system.

The **Empyre Elite XT's** high efficiency gasification technology combined with a readily accessible and renewable fuel makes wood the best heating choice.

2012 VESTA AWARD FINALIST

The Vesta Awards recognize and honor new alternative heating and hearth products that lead the industry in design and innovation. The Awards are presented annually at the Hearth, Patio & Barbecue Expo by Hearth & Home Magazine.



CENTRAL HEATING SYSTEMS

Due to its unique gasification technology, low cost and simplicity of use the Vesta judges have awarded the **Empyre Elite XT** for making wood heat accessible to more homeowners than ever.

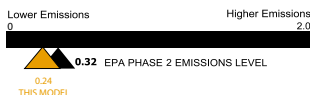
PHASE 2 QUALIFIED

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/burnwise

HYDRONIC HEATERS SMOKE EMISSIONS RANGE



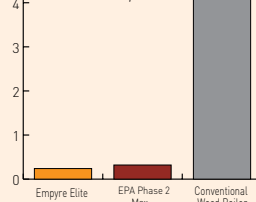
Heaters with lower emissions produce less smoke when installed and operated properly.

MANUFACTURER: Pro-Fab Industries
 MODEL NUMBER: Elite 100
 8-HOUR OUTPUT RATING: 48,721 BTU/HR
 8-HOUR AVERAGE EFFICIENCY: 78% (using higher heating value)
 89% (using lower heating value)
 PARTICLE EMISSIONS: 2.5 GRAMS/HR (average)
 3.8 GRAMS/HR (maximum test run)
 0.14 LBS/MILLION BTU INPUT
 0.24 LBS/MILLION BTU OUTPUT
 0.08 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 PHASE 2 WHITE TAG QUALIFIED*

Emissions lb/mBTU Output



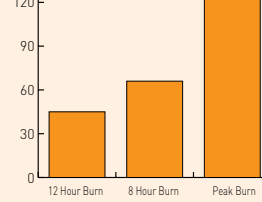
90% CLEANER BURNING!

Phase 2 qualified hydronic boilers reduce emissions by more than 90% over conventional wood furnaces. Empyre Elite emission levels are well below EPA standards, protecting the environment for a greener future!

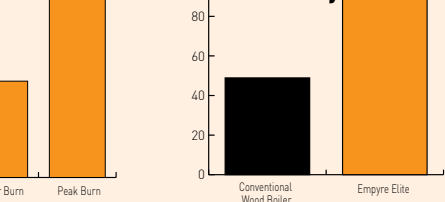
89% EFFICIENCY!

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

Heat Output 1000's BTU/Hour



Efficiency



EMPYRE ELITE 100 RESULTS

Heat your home, garage and domestic hot water with an Empyre Elite wood gasifier. Producing 66,000 BTU/hr on an 8 hour burn** the Empyre Elite 100 makes wood heat a convenient, cost effective alternative heating solution.

*The outdoor Empyre Elite XT 100 is an identical unit as the indoor Empyre Elite 100, except for the outer shell which is designed for outdoor installations.

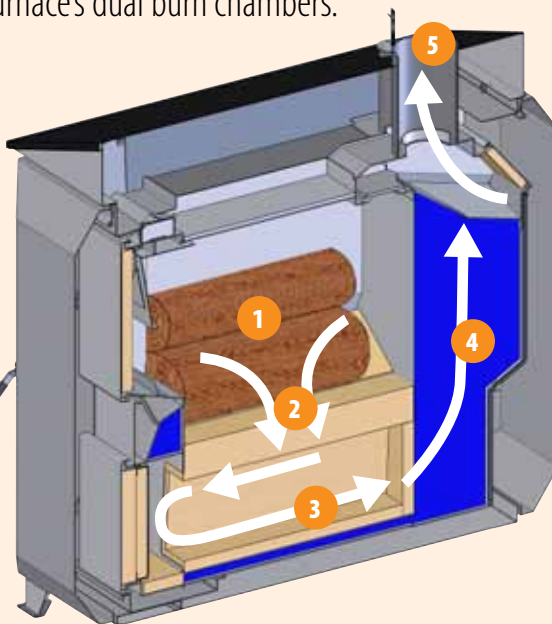
**Heat output and efficiency may vary based on wood type, quality and moisture. EPA 8 hour output rating test based on 10 lbs of wood/cubic foot of firebox, which means that this rating is based on a furnace that is only partially full.

RUGGED AND VERSATILE DESIGN PERFECT FOR INDOOR OR OUTDOOR INSTALLATION

HIGH EFFICIENCY GASIFICATION TECHNOLOGY

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

- 1 Firebox** Wood burns drying the top layer; the fire brick lining absorbs heat and maintains burn chamber temperatures to reignite quickly on demand.
- 2 Fire Nozzle** Is pushed down into the lower burn chamber.
- 3 Secondary Burn Chamber** Exhaust burns at up to 2,000°F (1093°C) eliminating virtually all smoke and gases.*
- 4 Heat Exchanger** Hot air exits through multiple heat exchange flues passing through the water jacket, transferring heat immediately and efficiently.
- 5 Chimney** Exhaust cools through the *Empyre Elite XT* heat exchanger to 350°F (177°C)* by the time it exits the chimney.



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

FEATURES

COMFORT

- Self-regulating combustion controls
- Maintains constant water temperatures
- Heat available on demand
- Consistent heat output
- Refractory fire brick lining maximizes heat retention
- Flexible installation indoor or outdoor

EFFICIENCY

- Dual combustion downdraft system
- EPA White Tag Qualified
- Reduces emissions by 90%
- Rated at 89% efficiency*
- Gasification technology

SECURITY

- Meets CSA/UL safety standards
- EPA White Tag Qualified
- CSA B415.1 Certified
- Air Curtain prevents gases from exiting
- Safety dual lock door system
- Well insulated exterior
- Smokeless loading
- Weather-Guard doors

89% EFFICIENCY

SMOKE FREE COMBUSTION

- 1 Water Level Indicator**
Monitor furnace water levels at a glance.

- 2 Temperature Control** Set the furnace to maintain water temperature at your desired level with the user friendly control panel.

- 3 Air Guard**
Exhaust exit lever activates the revolutionary air curtain and rear exhaust exit to direct exhaust and gases out the chimney when the loading door is open.

- 4 Air Curtain**
Keeps exhaust out of the room when loading; the air curtain swings inward for loading simplicity.

- 5 Fire Brick Refractory**
Stores heat in the firebox for hours, reigniting the wood quickly on a demand for heat.

- 6 Primary Burn Chamber**
Wood in the sealed firebox burns whenever air is introduced and does not smolder between cycles.

- 7 Loading Door**
Extra large size for ease of loading and heavy duty construction for long life.

- 8 Premium Batt Insulation**
Will not oxidize or shrink; keeps heat inside the furnace and the outside safe to touch.

- 9 Easy Flues** Transfer heat to the water jacket quickly and efficiently; simple to clean from rear clean out port.

- 10 Secondary Burn Chamber**
Exhaust gases from the firebox are injected with air and burn at up to 2,000°F (1093°C) to achieve nearly 100% fuel combustion.

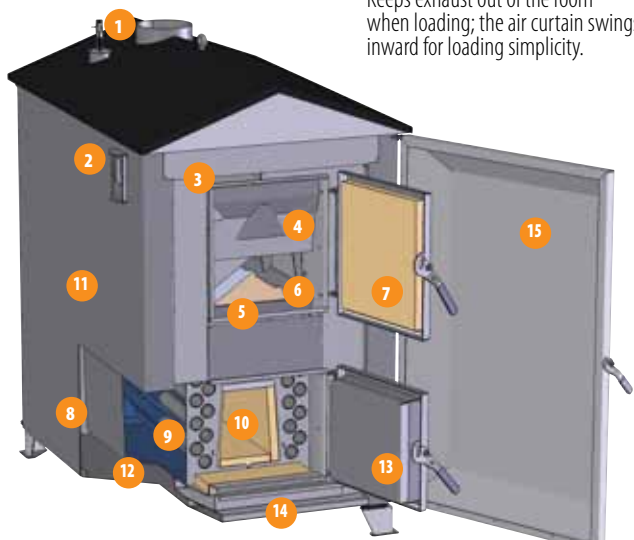
- 11 Durable Construction**
Solid steel with removable components for simple installation.

- 12 Built-in Water Reservoir**
Stores heated water to heat your home by a forced air or radiant heating system.

- 13 Ash Door** Wide insulated door makes ash cleanup from the gasification chamber and flues simple.

- 14 Ash Tray** Easily dispose of ash with the removable slide out ash tray.

- 15 Weather-Guard Doors** Front and rear doors protect the unit from the elements.



NO WORRY, NO HASSLE **SMOKE FREE LOADING**

BURNS CLEANER THAN
REQUIRED

OVER 5 TIMES CLEANER

The stringent and highly recognized B415.1 emission standard is required by CSA for many wood stove products. With a commitment to deliver the best products into the marketplace, Pro-Fab Industries works with several leading accredited testing laboratories, which is a testament to the commitment made for these testing protocols. The *Empyre Elite XT 200* is EPA White Tag Qualified, and in addition to EPA requirements, this highly efficient wood gasification boiler has also been B415.1 tested. The *Empyre Elite XT 200* has surpassed the B415.1 emission standard that represents true to life usage by burning cord wood versus crib wood. The *Empyre Elite XT 200* burns wood over 5 times cleaner than is required and is rated at 0.071 g/MJ. (g/MJ = grams per megajoule)



HOME HEATING

With versatile installation options the *Empyre Elite XT* can connect to any existing home heating system. Enjoy low cost, quality heat.



HOT WATER

Heat all of your hot water needs at the same time with the *Empyre Elite XT's* multiple hookups. Hot water from the boiler flows through a heat exchanger on an existing hot water heater.

ALSO AVAILABLE

INDOOR EMPYRE ELITE

- 2 MODELS AVAILABLE
- VESTA AWARD WINNING
- WOOD-ELECTRIC HYBRID
- 90% CLEANER BURNING
- 89% EFFICIENCY
- LONG BURN TIMES
- REFIRES AUTOMATICALLY FROM STANDBY
- INDOOR INSTALLATION
- GASIFICATION TECHNOLOGY
- SMOKE FREE COMBUSTION



Specifications	Model 100		Model 200	
Heat Output (Peak)*	125,000 BTU/hr	37.0 kWh	220,000 BTU/hr	64.4 kWh
Heat Output (8 hr burn)*	66,000 BTU/hr	19.3 kWh	110,000 BTU/hr	32.2 kWh
Heat Output (12 hr burn)*	45,000 BTU/hr	13.2 kWh	72,000 BTU/hr	21.1 kWh
Log Length	24"	61 cm	25"	64 cm
Log Diameter	6"	15 cm	6"	15 cm
Furnace Width	28"	71 cm	31.5"	80 cm
Furnace Length	52"	132 cm	61"	155 cm
Furnace Height	48"	122 cm	57"	145 cm
Loading Door Opening	16"x 14"	41 x 36 cm	18.5"x 16.5"	47 x 42 cm
Firebox Volume	6.1 ft ³	173 L	10 ft ³	283 L
Firebox Dimensions W x H x L	19"x 21"x 28"	48 x 53 x 71 cm	22.5"x 26"x 31.5"	57 x 66 x 80 cm
Water Capacity	60 US Gal.	227 L	112 US Gal.	424 L
Furnace Weight	945 lb	429 kg	1,400 lb	635 kg
Flue Collar Diameter	6"	15 cm	6"	15 cm
Limited Warranty	10 Year		10 Year	

Minimum Clearance to Combustibles

Flue Pipe/Side & Back Wall	12"	31 cm	12"	31 cm
Front	48"	122 cm	48"	122 cm
Ceiling	24"	61 cm	24"	61 cm

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

EMPYRE ELITE XT DIMENSIONS

	Model 100		Model 200	
Furnace Width	36"	91 cm	40.5"	103 cm
Furnace Length	59"	150 cm	67"	170 cm
Furnace Height	64"	163 cm	69.5"	177 cm
Furnace Weight	1,050 lb	476 kg	1,635 lb	742 kg

Pro-Fab Industries Inc., founded in 1989, is North America's premier designer and leader in alternative energy heating products. With five manufacturing facilities in three countries, Pro-Fab Industries has the widest range of EPA qualified clean burning indoor and outdoor wood gasification boilers sold around the world.



Manufactured by:
Pro-Fab Industries Inc.
Arborg, MB, Canada
R0C 0A0
888-933-4440
www.profabgroup.com

Your **EMPYRE** Dealer