



**OUTDOOR  
WOOD BOILER**



## PARTS BREAKDOWN & DESIGN

**1: Firebox Door:** Extra large, insulated door for easy fuel loading. Equipped with our signature, double safety, latch handle system.

**2: Primary Burn Chamber:** Large sealed firebox chamber allowing wood to burn only when air is introduced.

**3: Air Delivery Tubes:** Designed to distribute, preheated, outside air, evenly within the firebox.

**4: Secondary Combustion Chamber:** Exhaust gases from the firebox are injected, with air, to achieve temperatures up to 2,300°F and 99% fuel combustion.

**5: Secondary Combustion Chamber Door:** Wide insulated door providing access to the secondary combustion chamber for cleaning.

**6: Heat Transfer Tubes:** Strategically placed in the water reservoir to transfer heat to the water, assisting in achieving high efficiency and low emissions.

**7: Heat Transfer Doors:** Large insulated doors for easy cleaning of heat transfer tubes.

**8: Stainless Steel Flue:** Compared to conventional flue exhausts which have temperatures between 800° F - 1000° F, our Pristine Series has a flue exhaust as low as 280° F.

## HEAT YOUR HOME THE GREENER WAY

Greentech Manufacturing Inc. is based in the **"The Icebox of the Nation"**, International Falls, MN, where temperatures reach -40° F during the winter months. Each furnace model we manufacture has been rigidly tested to push the limits of what is possible, producing one of the most efficient & reliable furnaces on the market, backed by a **20 Year Limited Warranty**.

**Manufactured 100% in the USA**, Crown Royal Stoves, Pristine Series, has been designed to dramatically reduce emissions with the aid of an advanced air delivery system, reducing your carbon footprint and **exceeding EPA standards**.

### Ash Rake:

Easily clean the fly ash in the Secondary Burn Chamber.



### PHASE 2 QUALIFIED

U.S. Environmental Protection Agency  
Hydronic Heater Program

This model is qualified by EPA to meet Phase 2 smoke emission levels. Models with lower smoke emissions may reduce your risk of respiratory illness.

#### SMOKE EMISSIONS



MANUFACTURER:	Greentech Manufacturing
MODEL NUMBER:	857500R
MAXIMUM OUTPUT RATING:	500,000 BTU/Hr
8-HOUR OUTPUT RATING:	1,100,000 BTU/Hr
8-HOUR AVERAGE EFFICIENCY*:	64% (higher heating value)
ANNUAL EFFICIENCY*:	61% (higher heating value)
PARTICLE POLLUTION:	0.25 GPM/HR (average)

BurnWise

For more information go to [www.epa.gov/burnwise](http://www.epa.gov/burnwise)

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## EPA PHASE II QUALIFIED

Crown Royal Stoves, Pristine Series, were designed with the highest required standards in mind. Our EPA Phase II Qualified stoves are one of the cleanest burning units available.

Burn Cham



## PRISTINE SERIES FEATURES

**409 Stainless Steel Firebox & Water Jacket:** Developed to withstand the high temperatures of gasification, 409 Stainless Steel ensures the best corrosion resistance, maximum heat transfer and strength needed for the firebox and water jacket.

**Digital Control Panel:** The illuminated digital control panel was designed to be simple to use and read.

**Firebrick Refractory:** Durable and custom designed to withstand, and store, heat used in the gasification process to achieve low thermal conductivity for greater energy efficiency.

**Easy Maintenance:** Insulated front and rear heat transfer doors provide you with easy access to the heat transfer tubes for general cleaning.

**Insulated Rear Access Door:** Large rear access will ensure easy installation of necessary pumps and includes two separate feed and supply lines for multiple building hookups.

**Water Level Indicator:** Easy to read water level indicator will keep you informed when additional water must be added.

**Stainless Steel Chimney:** Equipped with Class A insulated stainless steel chimney and can be easily extended when needed.

## THE PRISTINE ADVANTAGE

- Less wood consumption, saving you more money.
- Improved, smoke free combustion for a clean burn.
- Thermal & energy efficiency with fewer emissions, providing environmentally responsible heat.
- Reliable design, giving you convenient, time saving features including easy maintenance & extended burn times.
- Refires automatically, when needed, to maximize & control energy use and heat delivery.
- Reduce your carbon footprint by using renewable heat sources and become carbon neutral.

## APPLICATIONS

- Residential Homes
- Pools / Hot Tubs
- Domestic Hot Water
- Radiant In-Floor Heating
- Commercial Buildings
- Greenhouses
- Garages & Workshops
- Barns & Agricultural Buildings

## INCLUDED ACCESSORIES



**Water Level Indicator:**  
Reliable mean of maintaining an accurate level of water in your furnace at all times.



**Air Tube Cleaning Whip:**  
Equipped with a drill adapter, this 5' flexible rod will ensure your furnace is clean and running at peak performance.



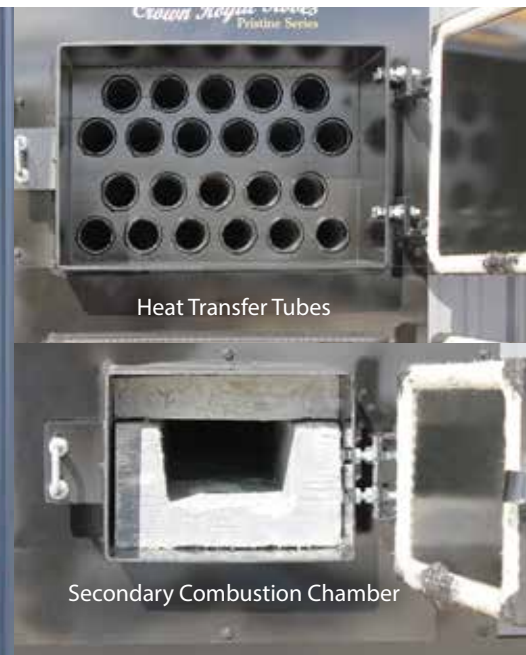
Water & Air Tubes



Digital Control Panel



Back Access Panel



Heat Transfer Tubes

Secondary Combustion Chamber

## SPECIFICATIONS

	RS 7300E	RS 7400E
Estimated Weight:	2500 lbs	3200 lbs
Width:	51"	54"
Length:	80"	89"
Height:	92"	102"
Max Firewood Length:	32"	34"
Chimney Size:	6"	6"
Door Size:	20" x 20"	22" x 26"
Supply Size:	2 - 1-1/4	2 - 1-1/4
Return Size:	2 - 1-1/4	2 - 1-1/4
Water Capacity:	290 Gallons	400 Gallons
Turbo Fan:	150 cfm	150 cfm
Approximate Sq. Ft.	4,000 - 5,000	7,000 - 8,000
Approximate BTU's	225,000	300,000
Insulation Walls:	R 30	R 30
Insulation Roof:	R 40	R 40
TYPE 409 Stainless Steel:	YES	YES



20  
YEAR  
LIMITED  
WARRANTY



**GTM**  
**GREENTECH**  
manufacturing inc.

**GREENTECH MANUFACTURING INC.**

International Falls, MN • 56649

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AUTHORIZED DEALER