



# *Crown Royal Stoves*

**STAINLESS STEEL**



**OUTDOOR BURNING FURNACES**  
**WOOD - COAL - CORN**







# RS Outdoor Furnace

## FEATURES

- High Grade 409 Stainless Steel
- Stainless steel heat transfer tubes
- Class A insulated chimney
- 4 models to choose from
- Fan forced draft
- Smoke by pass
- 20 year limited warranty
- Safety latch firebox door
- Non-stick door gasket
- Insulation - Walls R30, Roof R40
- Shaker grate system with ash pan
- Custom colors at additional cost

## CONVENIENCES

- No splitting wood
- Outside, no mess in the house
- Works with any existing system
- No carbon monoxide caused by gas fumes
- Removable ash pan
- Large firebox & loading door
- Cost effective heat source
- Multiple 1 1/4" supply & return connections
- Easily removable rear access door to plumbing connections
- Light for night loading

## ADVANTAGES

- Clean, Efficient & Safe
- Low maintenance
- Lower heat costs
- Warm & Dry floors
- UL 391, UL 726 & CSA B366.1

## APPLICATIONS

- Commercial buildings
- Homes & Shops
- Greenhouses
- Swimming pools / Hot tubs
- Radiant in-floor heat
- Domestic hot water





# Furnace Series



## WARRANTY INFORMATION

Greentech Manufacturing Inc. warrants its outdoor furnace, to the original owner, to be free of defects in material and workmanship for a period of twenty (20) years from the date of purchase. This warranty excludes the electrical components such as aquastats, thermostats, fans and pumps, as they are guaranteed by the manufacturer for a period of one (1) year. The cast iron rocker grates are warranted for five (5) years 100%. The door and ash pan gaskets are under warranty for a period of one (1) year from the date of purchase. Greentech Manufacturing Inc. does not warrant parts damaged by freezing, overheating, pressurization, and use of unauthorized fuels or abuse.

For more information on our limited warranty please speak to your local representative.



### Hot Water Heater Setup

### Turbo Draft System



- Burns secondary gases
- Burns hotter
- Better heat transfer
- Higher efficiency
- Uses less wood
- Faster heat recovery
- Low smoke emissions
- Less ashes



### Pressurized Boiler Coil

- Mounted to the back of the stove.
- This coil can be used for domestic water, (250,000 BTU's) or to plumb in your pressurized boiler. (500,000 BTU's) This way your system will be pressurized and your wood boiler won't.



### Shaker Grate

- Easy to clean
- The shaker grate design ensures complete burn of wood, coal, ear corn, sawdust and wood chips.
- The automatic forced air blower extends burn time and creates greater efficiency with hotter burns by introducing air under the grate.
- The ash pan is easily accessed threw the ash pan door for faster cleaning.





# Parts & Accessories

- A Air Handler** - Is a self contained forced air hot water heater. It can be easily installed in shops or garages and is thermostatically controlled for your complete heating needs.
- B Stack Extension** - This adds height to the stack for exhausting over buildings.
- C Astro Foil** - Installs easily and creates a superior thermal performance for in floor heat.
- D Water Lines** - Many brands of water lines are available; many of which have a thirty year warranty and are designed to take constant heat of hot water systems such as ours. It is easily formed and uses compression fittings for trouble free installation.
- E Insulated Pipe** - Insulated PVC is used in ground to run your water lines through. With this insulated pipe, there is very little heat loss in the ground.
- F Tube & Shell Coil** - This unit has been specially designed to be used for swimming pools and hot tubs.
- G Chemical** - This is low pressure boiler treatment for hard water. It is most effective at removing scale, inhibiting corrosion, and neutralizing acids.
- H Circulating Pump** - Is used to circulate water from the outdoor wood furnace to the house and back to the furnace. There are several models available to suit your specific installation.
- I W.A. Heat Exchanger** - A water to air heat exchanger may be installed into an existing electric or gas furnace duct work, therefore using the furnace blower to circulate the heat from the heat exchanger through the duct work of your building.
- J Brazed Plate Heat Exchanger** - These water to water heat exchangers make them ideal for domestic water heating, radiant floor, and hot water boilers.
- K Brass Fittings** - A large supply of brass fittings for all applications.
- L Cloverleaf Rain Cap** - Eliminates downdraft problems, creates better burns and keeps rain and snow out.

## APPLICATIONS

### Typical Crown Royal Installations:

The hot water system can be used to melt snow and ice from driveways and sidewalks. Hot water is pumped through tubing under the concrete which radiates heat, melting the snow and ice.

**Hot Water Heater:** The domestic water line connects to a heat exchanger on the Crown Royal Stove. The pressure on the supply lines force water through the heat exchanger when you open a hot water faucet inside your home. This provides hot water for all your household needs and dramatically decreases your hot water cost.

**Dairies & Shops:** The Crown Royal can provide hot water for your dairy and shop use. The preheated water can heat your shop by a Hydronic or a forced air system.

**Swimming Pools:** Heating your pool can become effortless and economical by including the optional swimming pool kit. This kit includes a pool pump, pool thermostat, and a low limit sensor.

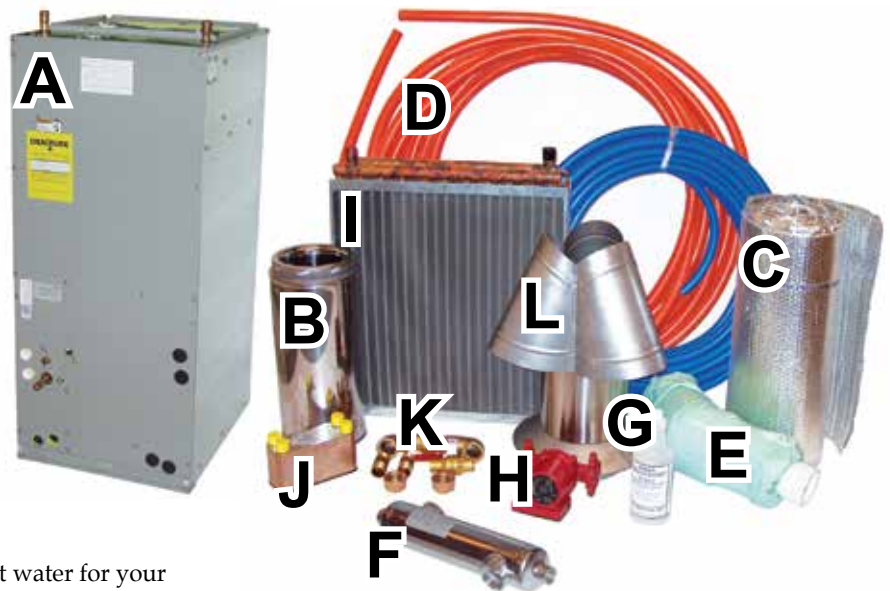
**Forced Air Systems:** A hot water heating coil can be installed on the supply side of your new or existing hot air duct. A thermostat regulates the heat and performs two functions: When heat is required, the thermostat sends a signal to the pump to circulate hot water and to the blow to turn on the forced air fan. Your existing furnace can serve as a backup heating source.

**Hydronic System:** The Crown Royal can be connected to any new or existing boiler heating system operating at 180 degrees Fahrenheit or less. The existing pump, zone valves and baseboard heaters can be used to provide heat. The existing boiler system can serve as a backup heating source.

**Radiant Floor Heating:** The Crown Royal can be used to supply the necessary hot water which is circulated throughout tubing inside the concrete or wood floor construction. The system temperature can be controlled on a room-by-room basis with strategically placed thermostats.

**Fan Coil Unit:** Homes without existing ductwork can enjoy the advantages of Crown Royal heat. The fan coil can be located central to the areas to be heated. Air forced across the hot water coil sends hot air into the area. The temperature of your home is regulated by a thermostat mounted on an electrical outlet adjacent to the unit.

**Green Houses:** The stove will keep a steady temperature needed for green houses all year round. Green Houses require large amounts of heat and your Crown Royal will provide that heat economically.







# Furnace Series



## ABOUT US

Greentech Manufacturing Inc. proudly presents the RS outdoor furnace series. Based out of International Falls, Minnesota, which is known as "The icebox of the nation", we have been in business since the early 90's. We are a family oriented business that started out by selling outdoor wood furnaces that were produced by different companies. Eventually we became highly unsatisfied with these furnaces and tried to get the manufactures to make changes. When these changes were not considered we decided to manufacture our own. We have been working to insure that our outdoor furnaces are of the best quality on the market and we strive to make improvements wherever possible. We believe that when you buy an outdoor furnace you are making an investment, not a purchase.

This is why it has been our commitment to build the best performing and longest lasting furnace on the market.

Every outdoor furnace we manufacture and sell comes with a Twenty Year Limited Workmanship Warranty as well as a Twenty Year Limited Corrosion Warranty.

We are ready to meet your needs and provide you with outstanding service, that is our promise!

## CROWN ROYAL DESIGN

The Crown Royal Stove is a non pressurized system and designed to be located next to your firewood storage for convenience and is normally filled once or twice a day, depending on the temperature outside. The Crown Royal firebox and outer drum is constructed of 10 gauge 409 AL titanium enhanced stainless steel; for the best corrosion resistance and heat transfer possible, the firebox and outer drum are a round design with shaker grates, and a ash pan designed in the unit, for easy cleaning. The combustion air is introduced under the grates for a much hotter and cleaner burn, also air is introduced on the top of the inside firebox to help burn gases inside the stove which produces more heat in the unit in which less wood is burned and less heat goes up the chimney. The Crown Royal provides hot water for hot air duct systems, water baseboards, radiant floor heat, unit heaters, hot tubs, pools, greenhouses and other existing hydronic systems.

The Crown Royal Stove design goal is to give years of service and make it easy to maintain and operate.





# Specifications



MODELS	RS 7200	RS 7300	RS 7400	RS 7500
Estimated Weight	1250	1500	2140	3230
Width	53"	53"	65"	83"
Length	55"	68"	83"	85"
Height	74"	74"	86"	101"
Max Firewood Length	32"	44"	56"	60"
Chimney Size	6"	6"	8"	10"
Door Size	20" x 20"	20" x 20"	24" x 24"	32" x 42"
Supply Size	2-1 1/4	2-1 1/4	2-1 1/4	4-1 1/4
Return Size	2-1 1/4	2-1 1/4	2-1 1/4	4-1 1/4
Water Capacity Appox	150 gals	200 gals	380 gals	620 gals
Fan Capacity	150 cfm	150 cfm	150 cfm	300 cfm
Turbo Draft B	100 cfm	100 cfm	100 cfm	100 cfm
Approximate Sq. Ft	2000 - 3000	4000 - 5000	8000 - 10,000	18,000 - 20,000
Approximate BTU's	165,000	240,000	365,000	500,000
Insulation: Walls	R 30	R 30	R 30	R 30
Insulation: Roof	R 40	R 40	R 40	R 40
Type 409 Stainless	Yes	Yes	Yes	Yes
Domestic Coil 250,000 BTU	Optional	Optional	Optional	Optional
Boiler Coil 500,000 BTU	Optional	Optional	Optional	Optional

Note: BTU's vary with the type of wood burned.

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