



### GT-220 Down Draft Boiler - High Efficiency Gasification

**\$7,900.00** Suggested Retail Price



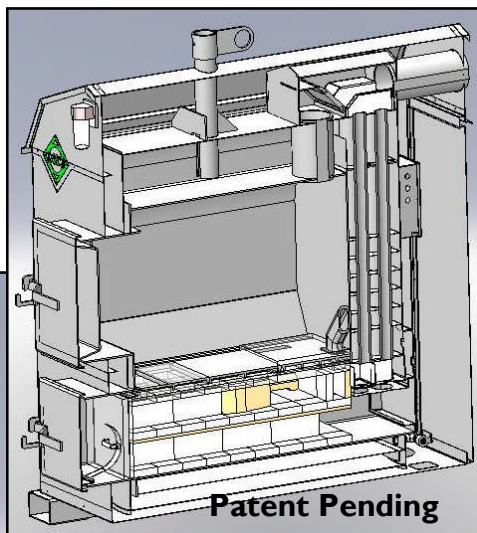
Patent Pending

### GT-220 Down Draft Boiler

The GT-220 is a 3 stage wood burning boiler that has a jet-engine inspired secondary burn chamber designed to heat the stage 1 exhaust from burning wood to temperatures so high that unburned fuel left in the stage 1 exhaust is ignited for a 2<sup>nd</sup> stage of burning. Custom formed firebrick line the very unique Double Secondary Burn Chamber (DSCB) which is the heart of the GT-220 making it a true gasification downdraft unit. This chamber has small vents at the beginning where the stage 1 exhaust comes through from the burning wood above. The exhaust is 'turbo boosted' at this point by a forced air blower. This air boosts the re-ignition for the stage 2 burn, supplying much needed oxygen to the fire forcing it to curl into itself which increases the heat and burn efficiency. The firebrick reaches a 'hyper-heated' condition causing the fire to burn even hotter. This is where gasification occurs. The temperatures inside the DSBC can reach 2000F or more. Wood normally burns at 800-900F! The stage 2 exhaust is then forced to travel in a spinning motion through refractor channels. This circulation helps the refractory to evenly transfer the heat to the steel, then to the water. For maximum heat transfer, the firebricks

are cemented to the steel. The stage 2 exhaust gases now run through a ceramic honeycomb catalyst filter. Using this catalyst filter increases the stage 2 gasification exhaust heat from 500F-800F up to 1500F which further burns particulates and any usable molecules. Not wasting any heat, the stage 3 exhaust is then sent up through six pipes that are surrounded by a flow of water from the circulating pump. This pulls even more heat into the water.

- Heats Up To 6000sqft
- Unit Dimensions - 84" T x 45" W x 78" L
- Fire Box Door - 20" x 20"
- Fire Box Dimensions - 30" T x 28" W x 40" L
- Fire Box Thickness - 1/4" Steel
- Water Jacket Thickness - 3/16" Steel
- Insulation - Fiberglass R-19 w/ Foil Foam To Double Insulate All The Way Around
- Gallons - 220ga
- Weight - 2380lbs



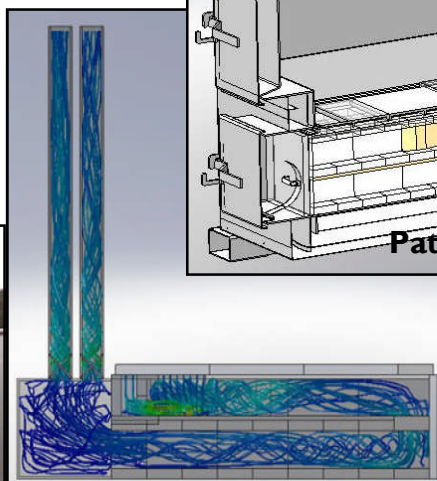
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Go Green & Heat For Less This Winter.

Burning wood for home heating is a great way to reduce your carbon foot print. Wood is considered carbon neutral by some scientists. Carbon released during combustion of wood is in the active carbon cycle. The carbon that trees take in from the atmosphere is released the same way when wood is burnt as it is when wood decomposes. Burning wood is almost totally carbon neutral. Your only carbon foot print is from the cutting and transportation of the wood you are burning.



Just got Easier



Flow Simulations:  
Tested By Computer For Perfect Air & Water Flow

**Too big of an investment? Check out our other Wood/Coal boilers starting at \$4,980.00 or our Pellet Stoves which are only \$2,190.00. You get the same great Quality and Service at a lower price.**