

BioMass Goliath

Leading the Way to Clean, Efficient Heating

(Btu range from 180K to 6.8M) is a modern commercial size device for burning of readily available small chunks (up to 1.5 inch) of waste wood, shavings, sawdust and bark. Desired fuel moisture for optimal operation should be in the range of 30-50%. Combustion process is controlled automatically with a programmable controller. Settings depend on fuel granulation, moisture and heat demand. Goliath Line Boilers come with process controller with sensors, burner with automatic feeder and hopper.



Fuel Source: Saw dust, Wood chips, Ground corn cobs, Chicken litter, and Grains



Technical Specifications

| Parameters | Unit | 55 | 110 | 180 | 300 | 600 | 1000 | 1200 | 2000 |
|---|-----------------|------|------|------|------|------|--------|--------|--------|
| Rated Power output | Btu | 180K | 370K | 610K | 1M | 2M | 3.5M | 4M | 6.8M |
| Heated surface | ft ² | 59 | 124 | 190 | 270 | 43 | 78 | 95 | 144 |
| Max static pressure | PSI | 36 | | | | | | | |
| Max outlet water | °F | 203 | | | | | | | |
| Chimney draft | Pa | 45 | 50 | 40 | 60 | 65 | 65 | 65 | 75 |
| Average exhaust gas temperature at flue | °F | 392 | 392 | 392 | 428 | 428 | 428 | 464 | 464 |
| Basic fuel consumption | lbs/h | 22 | 42 | 73 | 120 | 240 | 400 | 480 | 800 |
| Efficiency, basic fuel | % | 76 | | | | | | | |
| Efficiency, with pre-furnace | % | 82 | | | | | | | |
| Total weight | lbs | 1323 | 2535 | 3749 | 4740 | 6830 | 12,235 | 12,830 | 20,723 |
| Suggested chimney height | ft | 26 | 39 | 46 | 49 | 59 | 72 | 75 | 95 |
| Chimney size | inch | 8 | 12 | 12 | 24 | 23 | 31 | 31 | 43 |

ECO HEAT SALES

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