

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

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