

**BIOMASS FUEL FEED RATES FOR HBC HYBRID BOILERS w/ WOODY BIOMASS FUELS**

BHP	STEAM OUTPUT		8 % M.C. (Wet Basis)		20% M.C. (Wet Basis)		35% M.C. (Wet Basis)		50% M.C. (Wet Basis)	
	LBS/HR	KG/HR	8000 BTU/LB / 4445 Kcal/KG		6956 BTU/LB / 3865 Kcal/KG		5652 BTU/LB / 3140 Kcal/KG		4347 BTU/LB / 2415 Kcal/KG	
			LBS/HR	KG/HR	LBS/HR	KG/HR	LBS/HR	KG/HR	LBS/HR	KG/HR
100	3,450	1,565	523	237	633	287	811	368	1,100	499
125	4,313	1,956	654	297	792	359	1,014	460	1,375	624
150	5,175	2,347	785	356	950	431	1,217	552	1,650	749
175	6,038	2,739	915	415	1,108	503	1,420	644	1,925	873
200	6,900	3,130	1,046	475	1,266	574	1,623	736	2,200	998
250	8,625	3,912	1,308	593	1,583	718	2,028	920	2,750	1,248
300	10,350	4,695	1,569	712	1,900	862	2,434	1,104	3,300	1,497
350	12,075	5,477	1,831	830	2,216	1,005	2,840	1,288	3,850	1,747
400	13,800	6,260	2,092	949	2,533	1,149	3,245	1,472	4,400	1,996
450	15,525	7,042	2,354	1,068	2,849	1,293	3,651	1,656	4,950	2,246
500	17,250	7,825	2,615	1,186	3,166	1,436	4,057	1,840	5,501	2,495
550	18,975	8,607	2,877	1,305	3,483	1,580	4,462	2,024	6,051	2,745
600	20,700	9,390	3,138	1,424	3,799	1,723	4,868	2,208	6,601	2,994
650	22,425	10,172	3,400	1,542	4,116	1,867	5,274	2,392	7,151	3,244
700	24,150	10,954	3,661	1,661	4,432	2,011	5,679	2,576	7,701	3,493
750	25,875	11,737	3,923	1,779	4,749	2,154	6,085	2,760	8,251	3,743
800	27,600	12,519	4,184	1,898	5,066	2,298	6,491	2,944	8,801	3,992
900	31,050	14,084	4,707	2,135	5,699	2,585	7,302	3,312	9,901	4,491
1,000	34,500	15,649	5,230	2,373	6,332	2,872	8,113	3,680	11,001	4,990
1,160	40,020	18,153	6,067	2,752	7,345	3,332	9,411	4,269	12,761	5,789
1,200	41,400	18,779	6,277	2,847	7,599	3,447	9,736	4,416	13,201	5,988
1,300	44,850	20,344	6,800	3,084	8,232	3,734	10,547	4,784	14,301	6,487
1,400	48,300	21,909	7,323	3,322	8,865	4,021	11,359	5,152	15,401	6,986
1,600	55,200	25,039	8,369	3,796	10,131	4,596	12,981	5,888	17,602	7,984
1,800	62,100	28,169	9,415	4,271	11,398	5,170	14,604	6,624	19,802	8,982

TYPICAL EFFICIENCIES      ~80% @ 8% M.C.                      ~76% @ 20% M.C.                      ~73% @ 35% M.C.                      ~70% @ 50% M.C.

BARK (WET) = 22 LBS/Ft<sup>3</sup> / 352.4 KG/m<sup>3</sup>      SAWDUST (DRY) = 18 LBS/Ft<sup>3</sup> / 288.3 KG/      SHAVINGS (DRY) = 15 LBS/Ft<sup>3</sup> / 240.2 KG/m<sup>3</sup>

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