

Gas Performance Data

PB-65-W-O-G (6-21-13 MSS)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
% Burner output		0%	5%	10%	15%	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%	100%
Heat input	MMBtu/hr	6,500,000	9,425,000	12,350,000	15,275,000	18,200,000	21,125,000	24,050,000	26,975,000	29,900,000	32,825,000	35,750,000	38,675,000	41,600,000	44,525,000	47,450,000	50,375,000	53,300,000	56,225,000	59,150,000	62,075,000	65,000,000
Gas Flow	SCFH	6,500	9,425	12,350	15,275	18,200	21,125	24,050	26,975	29,900	32,825	35,750	38,675	41,600	44,525	47,450	50,375	53,300	56,225	59,150	62,075	65,000
Gas Mod. valve position	%	3.0	6.6	11.5	12.1	14.5	15.9	19.0	20.8	23.0	26.5	27.5	31.7	31.5	35.5	36.5	39.5	43.5	49.8	53.0	78.6	100.0
Gas Pressure at Train Inlet	PSI	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Gas Manifold Pressure	"w.c."	0.5	2.2	4.2	5.4	7.0	9.5	12.4	14.8	18.4	21.1	25.3	28.5	32.0	36.9	40.5	46.4	51.3	57.0	62.7	68.6	75.3
Dp at gas orifice	"w.c."	0.06	0.12	0.17	0.21	0.27	0.34	0.45	0.52	0.66	0.74	0.9	1.00	1.11	1.31	1.45	1.66	1.8	2.05	2.27	2.48	2.75
Biomass Feed Rate	Lbs/hr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Biomass Feeder Speed	FT/MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass Feeder Motor Speed	Hz	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Burner Blower	SCFH	147,000	171,519	196,038	220,556	245,075	269,594	294,113	318,631	343,150	367,669	392,188	416,706	441,225	465,744	490,263	514,781	539,300	563,819	588,338	612,856	637,375
Blower Output	%	10	15	20	24	28	33	38	42	46	50	54	59	63	67	71	75	79	83	87	90	94
Blower Body Pressure	i.w.c.	0.2	0.4	0.7	1.0	1.2	1.6	2.0	2.4	2.8	3.3	3.6	4.3	4.9	5.4	6.1	6.6	7.3	7.9	8.6	9.3	10.0
Blower Speed	Hz	14.0	16.4	19	21.0	23	25.5	28	29.9	32	34.3	36	38.6	41	42.8	45	46.9	49	51.0	53	55.0	57
Blower Power	HP	0.8	1.1	1.4	1.6	2.2	2.6	3.6	4.1	5.2	6.2	7.2	8.8	10.3	11.9	13.7	15.6	17.2	19.8	21.9	24.5	27.5
Blower Current	A	17.0	17.1	17.3	17.4	17.7	17.9	18.5	18.9	19.5	20.2	20.7	21.8	22.7	23.8	24.9	26.1	27.4	28.8	30.5	31.9	33.5
Mill Exhaust Fan Flow	SCFH	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000
Total Air	SCFH	327,000	351,519	376,038	400,556	425,075	449,594	474,113	498,631	523,150	547,669	572,188	596,706	621,225	645,744	670,263	694,781	719,300	743,819	768,338	792,856	817,375
Excess air	%	400%	271%	203%	161%	132%	112%	96%	84%	74%	66%	59%	53%	48%	44%	40%	37%	34%	32%	29%	27%	25%