

Gas Performance Data																						
PP2-100-G 2017 (New Nose Cone)		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	Btu/hr	10000000	14500000	19000000	23500000	28000000	32500000	37000000	41500000	46000000	50500000	55000000	59500000	64000000	68500000	73000000	77500000	82000000	86500000	91000000	95500000	100000000
Gas Flow	SCFH	10000	14500	19000	23500	28000	32500	37000	41500	46000	50500	55000	59500	64000	68500	73000	77500	82000	86500	91000	95500	100000
Mini-Main State (With Stabilizing Disc)	On/Off	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Gas Mod. valve position	%	10.42	13.56	18.81	22.57	26.34	30.67	34.68	38.21	41.23	42.79	46.18	48.76	51.29	54.07	57.87	60.37	62.73	66.72	71.70	79.65	99.62
Gas Pressure at Train Inlet	PSI	5.20	5.25	5.12	5.07	5.08	4.99	4.91	4.85	4.74	4.71	4.59	4.54	4.48	4.40	4.16	4.29	4.28	4.19	4.12	4.02	3.86
Gas Manifold Pressure	"w.c"	0.52	0.89	1.20	2.20	3.30	4.50	5.90	7.40	9.20	10.30	13.00	15.20	17.70	20.80	24.10	28.20	31.20	35.80	40.70	46.30	51.80
Blower Output % (Air VFD Position)	%	0.36	7.83	14.00	20.45	26.97	31.47	35.97	40.96	43.95	44.98	48.99	53.49	56.96	62.99	67.98	79.48	81.00	85.45	91.47	95.97	100
Blower Speed	Hz	8.3	11.0	13.8	16.4	18.8	20.8	22.5	23.9	24.9	25.9	27.7	28.7	30.9	33.3	35.3	39.1	40.4	42.2	44.7	46.5	47.8
Blower Body Pressure	"w.c"	0.24	0.44	0.60	0.90	1.20	1.60	1.90	2.20	2.30	2.60	2.90	3.20	3.70	4.30	5.00	6.20	6.60	7.30	8.10	8.80	9.30
Combustion Air Motor Current	Amp.	39.0	39.1	39.7	40.3	41.3	42.0	43.0	43.6	44.5	45.5	46.8	47.8	50.3	53.5	56.6	63.7	66.5	70.9	76.5	81.0	84.6
Combustion Air Motor Power	HP	0.80	1.35	2.10	3.09	4.35	5.59	6.78	8.10	9.10	10.00	12.10	13.40	16.50	20.60	24.20	33.20	36.30	41.40	48.80	54.60	59.30
% available power	%	5.78	7.36	9.13	11.30	13.88	16.13	18.08	20.33	21.93	23.17	26.21	28.01	32.04	37.12	41.13	50.95	53.91	58.86	65.50	70.45	74.44
Combustion Air Flow	SCFH	256,530	357,381	449,179	531,923	605,612	670,247	725,829	772,357	809,830	838,249	892,605	927,783	997,952	1,068,120	1,138,289	1,208,457	1,278,626	1,348,794	1,418,963	1,489,131	1,559,299
Flame Length	Feet	5.6	5.35	5.1	5.6	6.1	6.2	6.3	7.8	9.3	10.9	12.5	12.12	11.75	12.2	12.6	12.7	12.75	13.2	13.6	13.5	13.5
Flame Diameter	Feet	3.25	3.25	3.25	3.25	3.25	3.4	3.5	3.2	2.9	3.2	3.75	3.8	3.9	4.1	4.25	4.2	4.1	4	3.9	4.2	4.4
Excess air (Calculated)	%	155%	145%	135%	125%	115%	105%	95%	85%	75%	65%	61%	55%	55%	55%	55%	55%	55%	55%	55%	55%	55%

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VFD Setup		Air VFD
Motor Nominal Speed	RPM	1780
Min Ref	Hz	8.3
Max Ref	Hz	47.8
Ramp Up Time	Sec	40
Ramp Down Time	Sec	40
Motor Current	A	113
Motor Frequency	Hz	60
Motor Voltage	V	460
Motor Power	HP	100
Motor Power	kW	75

