

Gas Performance Data																							
PP2-75-G-2017		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%	
1	Heat input	Btu/hr	8000000	11350000	14700000	18050000	21400000	24750000	28100000	31450000	34800000	38150000	41500000	44850000	48200000	51550000	54900000	58250000	61600000	64950000	68300000	71650000	75000000
2	Gas Flow	SCFH	8000	11350	14700	18050	21400	24750	28100	31450	34800	38150	41500	44850	48200	51550	54900	58250	61600	64950	68300	71650	75000
3	Mini-Main State	Off/On	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4	Gas Mod. valve position	%	13.72	16.54	19.68	22.62	24.67	28.56	32.59	35.61	37.57	40.63	43.74	45.76	47.75	49.74	54.2	55.52	62.26	66.7	72.56	79.29	100
5	Gas Pressure at Train Inlet	PSI	4.62	4.60	4.45	4.47	4.47	4.41	4.36	4.34	4.28	4.20	4.15	4.06	4.05	4.03	3.62	3.96	3.46	3.44	3.43	3.43	3.43
6	Gas Manifold Pressure	"w.c"	0.28	0.5	1	2.2	2.3	3.3	4.6	6.5	7.6	9.2	11.1	11.8	13.6	15.3	17.2	20.1	22.7	24	26.3	30.1	32.6
7	Blower Output	%	1.1	8.8	12.0	16.0	21.0	25.0	30.0	34.0	39.0	44.0	51.0	53.0	59.0	64.0	69.0	74.0	79.0	84.1	89.0	96.0	99.0
8	Blower Speed	Hz	8.3	11.9	13.2	14.8	16.8	18.4	20.4	22.1	24.1	26.1	29	29.8	32.2	34.3	36.3	38.4	40.4	42.4	44.5	47.3	48.5
9	Blower Body Pressure	"w.c"	0.3	0.5	0.6	0.9	1.1	1.4	1.8	2.3	2.8	2.9	3.8	3.8	4.4	5.0	5.7	6.3	7.1	7.8	8.4	9.7	10.3
10	Combustion Air Motor Power	HP	0.77	1.21	1.5	1.91	2.52	3.12	4	4.7	6.04	7.89	10	11.1	13.9	16.5	19.7	22.7	27	30.9	35.4	42.1	46.3
11	Combustion Air Motor Current	Amp.	29.4	29.4	29.6	29.7	30.2	30.5	31	31.3	32.3	33.6	35.5	36.3	38.5	40.5	43.2	46	49.3	52.5	55.6	60.9	63.8
12	Combustion Air Flow	SCFH	190,883	282,128	282,128	327,751	373,374	418,996	464,619	510,242	555,864	601,487	647,110	699,346	751,583	803,819	856,056	908,292	960,529	1,012,765	1,065,002	1,117,238	1,169,475
13	Flame Length	Feet	1.4	1.5	1.5	1.8	2.1	2.2	2.3	2.4	2.5	2.7	2.8	2.8	2.8	2.9	3.0	3.0	3.0	3.2	3.3	3.4	3.4
14	Flame Diameter	Feet	2.3	2.2	2.2	2.2	2.3	2.7	3.1	3.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.9	3.1	3.0	2.8	2.9	2.9
15	Excess air (Calculated)	%	137%	147%	91%	80%	73%	68%	64%	61%	59%	57%	55%	55%	55%	55%	55%	55%	55%	55%	55%	55%	55%

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VFD Setup		Air VFD
Min Ref	Hz	8.3
Max Ref	Hz	48.5
Ramp Up Time	Sec	40
Ramp Down Time	Sec	40
Nominal Motor Speed	RPM	1775
Motor Current	A	115
Motor Frequency	Hz	60
Motor Voltage	V	480
Motor Power	kW	75

These values were measured using a burner firing into atmospheric conditions. These are to be used as a starting point only. Final Setup must be determined using a combustion analyzer.

