

Gas Performance Data																						
PP-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%
Heat input	Btu/hr	7500000	10875000	14250000	17625000	21000000	24375000	27750000	31125000	34500000	37875000	41250000	44625000	48000000	51375000	54750000	58125000	61500000	64875000	68250000	71625000	75000000
Gas Flow	SCFH	7500	10875	14250	17625	21000	24375	27750	31125	34500	37875	41250	44625	48000	51375	54750	58125	61500	64875	68250	71625	75000
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
Gas Mod. valve position	%	4.27	5.74	10.32	13.66	19.39	25.53	31.28	35.67	40.75	42.86	43.32	47.57	50.68	53.66	55.91	59.61	62.72	65.05	70.73	76.71	99.71
Gas Pressure at Train Inlet	PSI	5.25	5.20	5.15	5.10	5.05	5.00	4.95	4.90	4.85	4.80	4.75	4.70	4.65	4.60	4.55	4.50	4.45	4.40	4.35	4.30	4.25
Gas Manifold Pressure	"w.c"	0.7	1	1.3	2	3.4	4.3	5.6	7.1	8.6	9.9	11.9	13.4	16.1	18.7	20.7	24.4	27.2	29.3	33.1	36.3	41.6
Blower Output	%	0	4.33	8.67	13.38	18.62	23.5	28.03	32.55	37.62	42.14	46.84	52.08	57.33	62.57	68.36	73.43	78.48	83.91	88.61	94.03	98.91
Blower Speed	Hz	8.3	10.2	12	14	16.3	18.4	20.3	22.2	24.4	26.3	28.4	30.6	32.9	35.1	37.6	39.8	42	44.3	46.4	48.7	50.8
Blower Body Pressure	"w.c"	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.1	2.5	3	3.5	4.0	4.6	5.3	6.0	6.8	7.6	8.5	9.3	10.2	11.2
Combustion Air Motor Power	HP	0.53	0.74	1.03	1.46	2.04	2.77	3.64	4.61	5.93	7.29	9.05	11.3	14	16.9	20.4	24.4	28.4	33.5	38.1	44.5	49.9
Combustion Air Motor Current	Amp.	23	23.2	23.3	23.5	24.1	24.6	25.4	26.1	27.2	28.4	29.1	31.8	34.2	36.7	40.1	43.3	46.6	50.9	54.9	59.5	63.9
Combustion Air Flow	SCFH	186,016	231,736	277,455	323,175	368,894	414,614	460,333	506,053	551,772	597,492	643,211	695,838	748,464	801,090	853,717	906,343	958,970	1,011,596	1,064,222	1,116,849	1,169,475
Flame Length	Feet	3'-1"	3'-6"	3'-11"	3'-11"	3'-12"	3'-9"	3'-7"	4'-0"	4'-5"	4'-3"	4'-0"	4'-0"	4'-0"	4'-1"	4'-1"	4'-2"	4'-2"	4'-2"	4'-2"	5'-0"	5'-9"
Flame Diameter	Feet	2'-7"	2'-8"	2'-8"	2'-11"	3'-2"	2'-10"	2'-6"	3'-0"	3'-5"	3'-2"	2'-10"	3'-0"	3'-1"	3'-3"	3'-5"	3'-6"	3'-6"	3'-4"	3'-2"	3'-11"	2'-8"
Excess air (Calculated)	%	147%	112%	94%	82%	75%	69%	65%	62%	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	50.8
Ramp Up Time	Sec	40
Ramp Down Time	Sec	40
Nominal Motor Speed	RPM	1780
Motor Current	A	86
Motor Frequency	Hz	60
Motor Voltage	V	480
Motor Power	HP	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.

