

Gas Performance Data												
PF-75-G-2012-60 hz		1	2	3	4	5	6	7	8	9	10	11
% Burner output		0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Heat input	MMBtu/hr	7.5	14.3	21.0	27.8	34.5	41.3	48.0	54.8	61.5	68.3	75.0
Gas Flow	SCFH	7,500	14,250	21,000	27,750	34,500	41,250	48,000	54,750	61,500	68,250	75,000
Gas valve position		0.9	1.1	1.5	2.0	2.5	3.0	3.3	3.5	4.0	4.9	9.0
Gas Pressure in Train	PSI	2.32	2.32	2.32	2.22	2.25	2.25	2.30	2.23	2.25	2.27	2.24
Gas Pressure in gas manifold	"w.c"	-0.10	-0.50	0.20	2.80	5.20	8.20	10.80	13.40	17.80	22.80	31.20
Dp at gas orifice (4.6" bore)	"w.c"	0.13	0.24	0.42	0.65	0.98	1.44	1.91	2.36	2.98	3.75	4.70
Damper Position		0.5	0.8	1	1.5	1.8	2	2.5	2.8	3.3	4	9
Blower Body Pressure	"w.c"	50.20	49.50	48.60	48.50	47.60	45.90	45.20	43.30	38.40	34.10	24.80
Burner Body Pressure	"w.c"	0.10	0.10	0.50	1.40	2.50	3.10	4.70	7.00	9.80	13.80	21.80
Combustion Air Motor Power	HP	39.6	40.9	43.0	45.7	50.0	56.2	62.2	68.3	72.5	77.2	81.6
Combustion Air Motor Current	Amp.	42.5	44.2	45.8	48.4	52.0	51.0	62.9	68.5	72.4	76.5	80.7
Total Air Flow	SCFH	496,595	528,769	538,120	563,073	602,128	675,598	719,973	766,171	803,732	868,235	940,327
Burner Air Flow	SCFH	120,464	152,638	161,989	186,942	225,997	299,467	343,842	390,040	427,601	492,104	564,196
Flame Length	Feet											
Flame Diameter	Feet											
Excess air	%	558%	269%	155%	102%	73%	63%	49%	39%	30%	26%	25%

Match orifice meter differential pressure with blower body pressure. The chart below shows this graphically. To use it, find the fuel flow on the horizontal axis, then move vertically to the curve and then horizontally to the left to find the required blower body pressure. 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.

