

		LP Performance Data										
WJ-125-LP-2015		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	13.2	25.2	37.1	49.0	60.9	72.8	84.7	96.6	108.5	120.5	132.4
LP Flow	GPM	2.4	4.6	6.7	8.9	11.1	13.3	15.4	17.6	19.8	21.9	24.1
	LPM	9.1	17.3	25.5	33.8	42.0	50.2	58.4	66.6	74.8	83.0	91.2
LP Control Valve Position	Indicator	2.00	2.25	2.50	3.25	3.50	3.75	4.00	4.25	5.25	7.00	9.50
LP Pressure at Inlet	PSI	276	276	271	266	256	256	256	256	246	226	206
	kPa	1903	1903	1868	1834	1765	1765	1765	1765	1696	1558	1420
LP Pressure at Nozzle	PSI	88	97	105	112	119	125	130	135	139	142	145
	kPa	607	667	722	773	819	860	897	930	958	981	1000
Compressed air Pressure	PSI	73	73	73	73	73	73	73	73	73	73	73
	kPa	503	503	503	503	503	503	503	503	503	503	503
Main Air Flow	SCFH	250,000	454,495	643,002	921,654	1,020,680	1,112,600	1,155,896	1,237,158	1,345,729	1,536,887	1,600,000
	M ³	7,079	12,870	18,208	26,098	28,902	28,122	31,262	36,840	38,107	43,520	45,307
Damper Position	Indicator	0	0.75	1.5	2.75	3.25	3.75	4	4.5	5.25	7	9
Blower Power	HP	63.0	77.0	83.0	94.5	100.0	107.0	112.0	116.0	124.0	128.0	132.0
	KW	43.4	45.5	48.5	54.5	59	65.5	70	77	85	86	88
Blower Current	A	75	86	92	102	107	114	118	122	130	133	137
Burner Body Pressure	i.w.c.	0.34	1.70	2.50	4.70	6.00	8.40	10.00	11.30	15.00	18.90	20.00
	Pa	85	423	623	1,171	1,494	2,092	2,491	2,815	3,736	4,708	4,982
Blower Body Pressure	i.w.c.	23.00	24.00	24.50	24.70	24.60	24.60	24.80	24.10	23.60	22.90	22.60
	Pa	5,729	5,978	6,103	6,152	6,127	6,127	6,177	6,003	5,878	5,704	5,629
Flame Diameter	Feet	5.0	4.5	4.1	3.8	3.6	3.6	3.6	3.8	4.1	4.4	4.9
Flame Length	Feet	2.1	3.7	4.8	5.4	5.8	6.0	6.2	6.5	7.2	8.2	9.7
Excess air (Calculated)	%	96%	87%	80%	95%	74%	58%	41%	33%	29%	32%	25%

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Match LP flow rate (GPM) 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. Fine tuning must be done using a flue gas analyzer.

