

		LP Performance Data										
WJ-50-LP		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	5.5	10.5	15.4	20.4	25.4	30.3	35.3	40.3	45.2	50.2	55.1
LP Flow	GPM	1.0	1.9	2.8	3.7	4.6	5.6	6.5	7.4	8.3	9.2	10.1
LP Control Valve Position	Indicator	0	1.6	2.1	2.3	3.0	3.2	3.7	4.0	4.5	6.0	12
LP Pressure at Train Inlet	PSI	225	220	220	210	205	200	200	190	190	180	180
LP Pressure at Nozzle	PSI	45	55	70	80	95	98	100	110	120	130	150
Main Air Flow	SCFH	150,000	237,500	325,000	412,500	500,000	587,500	675,000	762,500	850,000	937,500	1,025,000
Damper Position	Indicator	0.0	0.2	0.6	0.8	1.5	2.0	2.5	2.8	4.1	4.5	9.0
Blower Power	HP											
Blower Current	A											
Blower Body Pressure	i.w.c.	0.03	0.20	0.30	0.40	0.45	0.90	2.20	3.10	6.40	9.40	14.30
Flame Diameter	Feet	3.0	3.0	3.0	3.0	3.5	3.5	3.5	3.5	3.0	3.0	3.0
Flame Length	Feet	3.0	6.0	6.0	6.0	6.5	7.0	7.0	7.0	7.0	7.0	7.0
Excess air (Calculated)	%	83%	52%	41%	36%	32%	30%	29%	27%	26%	26%	25%

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.

