

		LP Performance Data																					
WJ-75-LP-2014		1	2	3	4	5	6	7	8	9	10	11											
% 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	MMBtu/hr	8.3	12.0	15.7	19.4	23.1	26.8	30.5	34.2	38.0	41.7	45.4	49.1	52.8	56.5	60.2	63.9	67.7	71.4	75.1	78.8	82.5	
2 LP Flow	GPM	1.5	2.2	2.9	3.6	4.2	4.9	5.6	6.3	7.0	7.6	8.3	9.0	9.7	10.4	11.0	11.7	12.4	13.1	13.8	14.4	15.1	
3 LP Control Valve Position	Indicator	1.50	1.75	1.90	2.00	2.25	2.40	2.50	2.80	3.00	3.25	3.50	3.80	4.00	4.50	5.00	5.30	5.75	6.00	7.25	8.25	10.50	
4 LP Inlet Pressure	PSI	210	210	210	210	209	209	208	205	205	200	200	195	195	192	190	190	190	190	190	190	189	
5 LP Nozzle Pressure	PSI	60	70	85	89	90	100	110	118	122	125	128	130	135	148	148	150	155	160	160	160	178	
6 Main Air Flow	SCFH	300,000	335,866	371,731	407,597	443,463	479,328	515,194	551,060	586,925	622,791	658,657	694,522	730,388	766,253	802,119	837,985	873,850	909,716	945,582	981,447	1,017,313	
7 Damper Position	Indicator	0.00	0.40	0.60	0.80	1.25	1.50	1.60	2.00	2.25	2.49	2.55	2.80	3.00	3.25	3.50	3.60	4.00	4.25	4.50	4.80	5.50	
8 Blower Power	HP	47.7	50.1	51.4	54	56.7	58.2	60.2	61.4	63.2	64.6	66.1	66.8	68.3	70.1	71.6	72.5	73.3	75.2	75.9	77.6	79.1	
9 Blower Current	A	49.2	51.7	53.1	55.4	57.3	59.3	60.9	62	63.1	65.2	66.8	66.9	69.6	70.7	71.7	73	73	74.8	75.9	77.5	78.6	
10 Blower Body Pressure	i.w.c.	20.58	20.37	20.70	20.74	20.69	20.81	20.94	20.84	20.45	20.54	20.63	20.48	20.14	20.05	19.91	19.83	19.60	19.77	19.56	19.26	18.92	
11 Burner Body Pressure	i.w.c.	0.42	0.69	0.91	1.16	1.54	1.98	2.31	2.75	3.28	3.75	4.26	4.71	5.41	5.94	6.68	7.19	8.17	8.76	9.50	10.55	11.69	
12 Flame Diameter	Feet	4	4.25	4.5	4.75	5	5.5	6	6.5	7	6.75	6.5	6.25	6	5.5	5	4.5	4	4	4	4	4	
13 Flame Length	Feet	2.5	3	3.5	4.5	5.5	6	6.5	6.5	7.25	7	6.75	6.5	6.25	6	6	6	6	5.75	5.75	5.5	5.5	
14 Excess air (Calculated)	%	275%	189%	144%	117%	98%	84%	74%	66%	59%	54%	50%	46%	43%	40%	37%	35%	33%	31%	30%	28%	27%	

SO 259482 (13-077) LP halo design

Match LP flow rate (GPM) with burner 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 burner 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.

