Oil Performance Data												
WJ-75-O-2009-60hz		**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**	8.5	15.9	23.3	30.8	38.2	45.6	53.0	60.4	67.8	75.2	82.6
Oil Flow	**GPM**	1.0	1.9	2.7	3.6	4.5	5.4	6.2	7.1	8.0	8.8	9.7
	LPM	3.8	7.1	10.4	13.7	17.0	20.3	23.5	26.8	30.1	33.4	36.7
Oil Control Valve Position	**Indicator**	1.25	3.00	4.25	5.00	5.50	5.75	6.00	6.50	7.25	8.25	11.00
Oil Pressure at Train Inlet	**PSI**	132	131	130	130	129	128	126	124	121	119	116
	kPa	910	903	896	896	889	883	869	855	834	820	800
Oil Pressure at Nozzle	**PSI**	33	36	40	43	47	49	52	56	59	61	64
	kPa	228	248	276	296	324	338	359	386	407	421	441
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**	235,177	262,996	353,700	404,078	494,256	593,409	682,220	760,282	845,327	943,050	1,020,618
	M^3	6,659	7,447	10,016	11,442	13,996	16,803	19,318	21,529	23,937	26,704	28,901
Damper Position	**Indicator**	0.00	0.75	1.50	1.75	2.25	2.75	3.00	3.25	3.75	4.75	9.00
Blower Power	**HP**	47.0	48.5	54.9	58.5	61.9	68.1	73.3	75.0	76.1	80.4	83.9
Blower Current (480V)	**A**	54.2	55.6	60.7	63.1	67.3	72.1	75.8	78.0	80.7	84.3	86.3
Blower Body Pressure	**i.w.c.**	21.0	20.8	20.8	21.0	21.0	20.9	20.5	20.1	19.8	19.5	18.8
	Pa	5,231	5,181	5,181	5,231	5,231	5,206	5,106	5,007	4,932	4,857	4,683
Burner Body Pressure	**i.w.c.**	0.7	0.9	1.54	2.15	3.4	5.2	7.2	9.2	11.5	15.4	17.5
	Pa	174	224	384	536	847	1,295	1,793	2,292	2,864	3,836	4,359
Flame Diameter	**Feet**	2.0	2.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	6.0	6.0
Flame Length	**Feet**	6.0	5.0	5.0	6.0	6.0	6.0	7.0	7.0	7.5	8.0	8.0
Excess air (Calculated)	**%**	189%	73%	59%	38%	36%	37%	35%	32%	31%	31%	30%

Match oil 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.