

Propane Performance Data

PT-50-LP																							
% 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	5.5	8.0	10.5	12.9	15.4	17.9	20.4	22.8	25.3	27.8	30.3	32.7	35.2	37.7	40.2	42.6	45.1	47.6	50.1	52.5	55.0	
2 Propane Flow	GPM	1.0	1.5	1.9	2.4	2.8	3.3	3.7	4.2	4.6	5.1	5.5	6.0	6.4	6.9	7.3	7.8	8.2	8.7	9.1	9.6	10.0	
3 Blower Speed	Hz	13.0	15.0	16.9	18.9	20.8	22.8	24.7	26.7	28.6	30.6	32.5	34.5	36.4	38.4	40.3	42.3	44.2	46.2	48.1	50.1	52.0	
4 Blower Speed	RPM	704	810	915	1021	1127	1232	1338	1444	1549	1655	1760	1866	1972	2077	2183	2289	2394	2500	2605	2711	2817	
5 Flame Length	Feet								3.5	3	3.5	3.5	3.5	3.5	4	5	6.5	7.5	7.5	7.5	8	8	
6 Flame Diameter	Feet								2.0	2.5	2.5	2.5	2.5	3.0	3.0	3.0	3.0	3.5	3.5	3.5	3.5	3.5	
7 Blower Body Pressure	i.w.c.	0	0	1	1	1	1	1	2	2	2	2	3	3	3	4	4	4	4	5	5	6	
8 Main Air Flow (Calculated)	SCFH	149889	173063	196236	219410	242584	265758	288932	312105	335279	358453	381627	404801	427974	451148	474322	497496	520670	543843	567017	590191	613365	
7 Excess air (Calculated)	%	182%	125%	95%	76%	63%	54%	47%	42%	37%	34%	31%	28%	26%	24%	22%	21%	20%	18%	17%	16%	16%	

VFD Setup		Oil VFD	Air VFD
Min Ref	Hz		13
Max Ref	Hz		52
Ramp Up Time	Sec		45
Ramp Down Time	Sec		45
Nominal Motor Speed	Hz		3250
Motor Current	A		
Motor Frequency	Hz		60
Motor Voltage	V		480
Motor Power	kW		

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. Increase or decrease the fan speed or the fuel flow as needed to match the values. Determine fuel flow by reading the the fuel flow meter on the LP train. All "light off" positions must be 0. Fine tuning must be done using a flue gas analyzer.

