

Hauck StarJet 750G Capacity & Performance Table Low Pressure Oil Firing

Burner Input	Spin Position (degrees)	BURNER AIR						BURNER FUEL								Flame Length		Flame Diameter	
		Air Valve Position	Body Pressure		Air Flow		Blower Amps	Fuel Valve Position	Fuel Inlet pressure		Fuel Flow		Firing Rate		(ft)	(m)	(ft)	(m)	
			(in.w.c.)	(mbar)	(cfm)	(m3/min)			(psig)	(bar)	(gpm)	(lpm)	(MMBTU/h)	(MW)					
Low Fire	0	1	0.1	0.2	3004.1	85.1	69.2	0	71	4.90	1.99	7.5	16.5	4.36	2.75	0.84	2	0.61	
	30	1	0.1	0.2	2887.8	81.8	69.4	0	71	4.90	1.99	7.5	16.5	4.36	2.42	0.74	2	0.61	
	60	1	0.2	0.5	2610.2	73.9	69.4	0	71	4.90	1.99	7.5	16.5	4.36	1.87	0.57	2	0.61	
25%	0	3	1.7	4.2	4160.1	117.8	85.5	2	69	4.76	4.5	17.1	37.5	9.92	12.5	3.81	3.5	1.07	
	30	3	1.7	4.2	3999.1	113.3	84.7	2	69	4.76	4.5	17.1	37.5	9.92	11	3.35	4	1.22	
	60	3	2.6	6.5	3614.6	102.4	84.3	2	69	4.76	4.5	17.1	37.5	9.92	8.5	2.59	5	1.52	
50%	0	4.5	20.8	51.8	6086.7	172.4	109.2	4	62	4.27	9.1	34.3	75.0	19.84	17.5	5.33	4.9	1.49	
	30	4.5	23.4	58.2	5851.2	165.7	107.5	4	62	4.27	9.1	34.3	75.0	19.84	15.4	4.69	5.6	1.71	
	60	4.5	30.2	75.1	5288.7	149.8	102.2	4	62	4.27	9.1	34.3	75.0	19.84	11.9	3.63	7	2.13	
75%	0	5.5	35.4	88.1	8013.4	226.9	126.5	5	56	3.86	13.6	51.4	112.5	29.76	22.5	6.86	6.3	1.92	
	30	5.5	37.2	92.6	7703.3	218.2	123.7	5	56	3.86	13.6	51.4	112.5	29.76	19.8	6.04	7.2	2.19	
	60	5.5	44.1	109.7	6962.7	197.2	111.7	5	56	3.86	13.6	51.4	112.5	29.76	15.3	4.66	9	2.74	
100%	0	10	56.2	139.8	9940	281.5	146.2	10	47	3.24	18.1	68.6	150.0	39.68	25	7.62	7	2.13	
	30	10	57.0	141.8	9555.5	270.6	137.5	10	47	3.24	18.1	68.6	150.0	39.68	22	6.71	8	2.44	
	60	10	58.8	146.3	8636.8	244.6	125.7	10	47	3.24	18.1	68.6	150.0	39.68	17	5.18	10	3.05	
Not Firing	0	10	57.0	141.8	9435	267.2	148.2												
	30	10	58.0	144.3	9070	256.9	142.6												
	60	10	59.7	148.5	8198	232.2	126.6												

Table Issue Date	July 2016
Test Date	September 2004
Ambient Temperature	85°F (29°C)
Barometric Pressure	29.4 in.Hg (747 mm Hg)
Blower Size	Hauck TBA 36-125
Blower 100% / 115%	146 / 168 FLA (Full Load Amp Draw)
Fuel Type	No.2 Oil with HHV = 138,000 BTU/USgal (Standard) / LHV = 10.3 kWh/liter (Metric), 0.87 S.G., and stoichiometric ratio of 1380:1
Fuel Valve	Hauck GL-1-29 / S-3-1610C
Sleeve Type	High Velocity

Hauck StarJet 750G Capacity & Performance Table Natural Gas Firing

Burner Input	Spin Position (degrees)	BURNER AIR						BURNER FUEL						Flame Length		Flame Diameter		
		Air Valve Position	Body Pressure		Air Flow		Blower Amps	Fuel Valve Position	Fuel Inlet pressure		Orifice ΔP		Firing Rate					
			(in.w.c.)	(mbar)	(cfm)	(m3/min)			(psig)	(bar)	(in.w.c.)	(mbar)	(MMBTU/h)	(MW)	(ft)	(m)	(ft)	(m)
Low Fire	0	1	0.1	0.2	3004.1	85.1	69.7	1	4.0	0.28	0.1	0.1	11.6	3.07	2.75	0.84	2	0.61
	30	1	0.1	0.2	2887.8	81.8	69.0	1	4.0	0.28	0.1	0.2	11.6	3.07	2.42	0.74	2	0.61
	60	1	0.2	0.5	2610.2	73.9	69.2	1	4.0	0.28	0.1	0.2	11.6	3.07	1.87	0.57	2	0.61
25%	0	2.5	1.5	3.7	4160.1	117.8	81.5	2	4.0	0.28	0.6	2.1	37.5	9.92	12.5	3.81	3.5	1.07
	30	2.5	1.5	3.7	3999.1	113.3	82.1	2	4.0	0.28	0.6	2.1	37.5	9.92	11	3.35	4	1.22
	60	2.5	2.6	6.5	3614.6	102.4	81.7	2	4.0	0.28	0.6	2.1	37.5	9.92	8.5	2.59	5	1.52
50%	0	3	6.9	17.2	6086.7	172.4	91.6	3	4.0	0.28	2.2	8.3	75.0	19.84	17.5	5.33	4.9	1.49
	30	3	8.6	21.4	5851.2	165.7	91.2	3	4.0	0.28	2.2	8.3	75.0	19.84	15.4	4.69	5.6	1.71
	60	3	12.1	30.1	5288.7	149.8	90.6	3	4.0	0.28	2.2	8.3	75.0	19.84	11.9	3.63	7	2.13
75%	0	4.5	26.0	64.7	8013.4	226.9	112.0	4.5	4.0	0.28	5.1	19.1	112.5	29.76	22.5	6.86	6.3	1.92
	30	4.5	27.7	68.9	7703.3	218.2	111.5	4.5	4.0	0.28	5.1	19.1	112.5	29.76	19.8	6.04	7.2	2.19
	60	4.5	32.8	81.6	6962.7	197.2	105.7	4.5	4.0	0.28	5.1	19.1	112.5	29.76	15.3	4.66	9	2.74
100%	0	10	57.0	141.8	9940	281.5	139.4	10	4.0	0.28	9.1	34.4	150.0	39.68	25	7.62	7	2.13
	30	10	57.0	141.8	9555.5	270.6	138.4	10	4.0	0.28	9.1	34.4	150.0	39.68	22	6.71	8	2.44
	60	10	58.8	146.3	8636.8	244.6	134.2	10	4.0	0.28	9.1	34.4	150.0	39.68	17	5.18	10	3.05
Not Firing	0	10	57.0	141.8	9435	267.2	148.5											
	30	10	58.0	144.3	9070	256.9	141.5											
	60	10	58.8	146.3	8198	232.2	124.8											

Table Issue Date	July 2016
Test Date	September 2004
Ambient Temperature	88°F (31°C)
Barometric Pressure	29.4 in.Hg (747 mm Hg)
Blower Size	Hauck TBA 36-125
Blower 100% / 115%	146 / 168 FLA (Full Load Amp Draw)
Fuel Type	Natural Gas with HHV = 1,034 BTU/ft3 (Standard) / LHV = 10.21 kWh/nm3 (Metric), 0.59 S.G., and stoichiometric ratio of 9.74:1
Fuel Valve and Meter	6 inch butterfly valve / OMG2080 with 6.0 inch Bore
Sleeve Type	Low Velocity



Hauck StarJet 750G Capacity & Performance Table Liquid Propane Firing

Burner Input	Spin Position (degrees)	BURNER AIR						BURNER FUEL						Flame Length		Flame Diameter		
		Air Valve Position	Body Pressure		Air Flow		Blower Amps	Fuel Valve Position	Fuel Inlet pressure		Fuel Flow		Firing Rate					
			(in. w.c.)	(mbar)	(cfm)	(m3/min)			(psig)	(bar)	(gpm)	(lpm)	(MMBTU/h)	(MW)	(ft)	(m)	(ft)	(m)
Low Fire	0	1	0.1	0.2	3004.1	85.1	69.2	1	240	16.55	3.0	11.4	16.5	4.36	2.75	0.84	2	0.61
	30	1	0.1	0.2	2887.8	81.8	69.4	1	240	16.55	3.0	11.4	16.5	4.36	2.42	0.74	2	0.61
	60	1	0.2	0.5	2610.2	73.9	69.4	1	240	16.55	3.0	11.4	16.5	4.36	1.87	0.57	2	0.61
25%	0	3	1.7	4.2	4160.1	117.8	85.5	2.5	235	16.20	6.9	26.0	37.5	9.92	12.5	3.81	3.5	1.07
	30	3	1.7	4.2	3999.1	113.3	84.7	2.5	235	16.20	6.9	26.0	37.5	9.92	11	3.35	4	1.22
	60	3	2.6	6.5	3614.6	102.4	84.3	2.5	235	16.20	6.9	26.0	37.5	9.92	8.5	2.59	5	1.52
50%	0	4.5	20.8	51.8	6086.7	172.4	109.2	3.5	230	15.86	13.7	52.0	75.0	19.84	17.5	5.33	4.9	1.49
	30	4.5	23.4	58.2	5851.2	165.7	107.5	3.5	230	15.86	13.7	52.0	75.0	19.84	15.4	4.69	5.6	1.71
	60	4.5	30.2	75.1	5288.7	149.8	102.2	3.5	230	15.86	13.7	52.0	75.0	19.84	11.9	3.63	7	2.13
75%	0	5.5	35.4	88.1	8013.4	226.9	126.5	4.5	225	15.51	20.6	78.0	112.5	29.76	22.5	6.86	6.3	1.92
	30	5.5	37.2	92.6	7703.3	218.2	123.7	4.5	225	15.51	20.6	78.0	112.5	29.76	19.8	6.04	7.2	2.19
	60	5.5	44.1	109.7	6962.7	197.2	111.7	4.5	225	15.51	20.6	78.0	112.5	29.76	15.3	4.66	9	2.74
100%	0	10	56.2	139.8	9940	281.5	146.2	8	225	15.51	27.5	104.0	150.0	39.68	25	7.62	7	2.13
	30	10	57.0	141.8	9555.5	270.6	137.5	8	225	15.51	27.5	104.0	150.0	39.68	22	6.71	8	2.44
	60	10	58.8	146.3	8636.8	244.6	125.7	8	225	15.51	27.5	104.0	150.0	39.68	17	5.18	10	3.05
Not Firing	0	10	57.0	141.8	9435	267.2	148.2											
	30	10	58.0	144.3	9070	256.9	142.6											
	60	10	59.7	148.5	8198	232.2	126.6											

Table Issue Date	July 2016
Test Date	September 2004
Ambient Temperature	61°F (16°C)
Barometric Pressure	29.7 in.Hg (754 mm Hg)
Blower Size	Hauck TBA 36-125
Blower 100% / 115%	146 / 168 FLA (Full Load Amp Draw)
Fuel Type	Liquid Propane with HHV = 91,000 BTU/USgal (Standard) / LHV = 6.5 kWh/liter (Metric), 0.5 S.G., and stoichiometric ratio of 850:1
Fuel Valve	Hauck J-1-29
Sleeve Type	Low Velocity