

Hauck StarJet 150G 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					
			(in.w.c.)	(mbar)	(cfm)	(m3/min)			(psig)	(bar)	(gpm)	(lpm)	(MMBTU/h)	(MW)	(ft)	(m)	(ft)	(m)
Low Fire	0	1.5	1.2	3.0	1580	44.7	15.2	0	47	3.24	0.50	1.9	4.1	1.10	1	0.30	1	0.30
	30	1.5	1.5	3.7	1644	46.6	15.3	0	47	3.24	0.50	1.9	4.1	1.10	1	0.30	1	0.30
	60	1.5	1.9	4.7	1580	44.7	15.2	0	47	3.24	0.50	1.9	4.1	1.10	1	0.30	1	0.30
25%	0	3.5	3.2	8.0	2090	59.2	17.3	3.5	47	3.24	0.8	3.2	7.0	1.84	3.2	0.98	2	0.61
	30	3.5	4.6	11.4	2014	57.0	17.3	3.5	47	3.24	0.8	3.2	7.0	1.84	3.2	0.98	2	0.61
	60	3.5	6.4	15.9	2090	59.2	17.3	3.5	47	3.24	0.8	3.2	7.0	1.84	3.2	0.98	2	0.61
50%	0	4.5	8.2	20.4	2620	74.2	19.9	4.5	46	3.17	1.7	6.4	14.0	3.70	8	2.44	2.5	0.76
	30	4.5	10.8	26.9	2519	71.3	19.8	4.5	46	3.17	1.7	6.4	14.0	3.70	8	2.44	2.5	0.76
	60	4.5	14.5	36.1	2539	71.9	19.2	4.5	46	3.17	1.7	6.4	14.0	3.70	7	2.13	3.5	1.07
75%	0	6	18.7	46.5	3533	100.1	24.4	6.5	44	3.03	2.5	9.5	20.7	5.48	10	3.05	3.5	1.07
	30	6	24.1	60.0	3458	97.9	23.6	6.5	44	3.03	2.5	9.5	20.7	5.48	8	2.44	4	1.22
	60	6	30	74.6	3305	93.6	22.7	6.5	44	3.03	2.5	9.5	20.7	5.48	8	2.44	4	1.22
100%	0	10	42.6	106.0	4891	138.5	31.2	9	43	2.96	3.4	12.8	28.1	7.43	12	3.66	4	1.22
	30	10	47.1	117.2	4205	119.1	28.5	9	43	2.96	3.4	12.8	28.1	7.43	10	3.05	4	1.22
	60	10	50.9	126.6	3816	108.1	25.8	9	43	2.96	3.4	12.8	28.1	7.43	9	2.74	4.5	1.37
Not Firing	0	10	40.5	100.8	4783	135.5	30.8											
	30	10	44	109.5	4673	132.3	29.2											
	60	10	48	119.4	4205	119.1	27.3											

Table Issue Date	July 2016
Test Date	September 2004
Ambient Temperature	85°F (29°C)
Barometric Pressure	29.48 in.Hg (748 mm Hg)
Blower Size	Hauck TBA 36-25
Blower 100% / 115%	30.0 / 34.5 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 B-1/2-16W / S-3-7C
Sleeve Type	High Velocity

Hauck StarJet 150G 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	1.5	1.0	2.5	1633	46.2	15.2	3	2	0.14	#N/A	#N/A	4.0	1.06	2.5	0.76	1	0.30
	30	1.5	1.3	3.2	1567	44.4	15.2	3	2	0.14	#N/A	#N/A	4.0	1.06	2.5	0.76	1	0.30
	60	1.5	1.6	4.0	1633	46.2	15.1	3	2	0.14	#N/A	#N/A	4.0	1.06	2.5	0.76	1	0.30
25%	0	2	1.5	3.7	1729	49.0	15.6	4	1.75	0.12	0.25	0.9	7.0	1.85	5	1.52	2	0.61
	30	2	1.8	4.5	1666	47.2	15.6	4	1.75	0.12	0.25	0.9	7.0	1.85	5	1.52	2	0.61
	60	2	2.4	6.0	1666	47.2	15.7	4	1.75	0.12	0.25	0.9	7.0	1.85	5	1.52	2	0.61
50%	0	3.5	3.4	8.5	2216	62.8	17.9	5	1.75	0.12	1.15	4.4	14.0	3.70	7.5	2.29	2	0.61
	30	3.5	4.6	11.4	2240	63.4	17.7	5	1.75	0.12	1.15	4.4	14.0	3.70	7	2.13	2.5	0.76
	60	3.5	6.6	16.4	2216	62.8	17.6	5	1.75	0.12	1.15	4.4	14.0	3.70	7	2.13	2.5	0.76
75%	0	5	11.1	27.6	3012	85.3	22.0	7	1.75	0.12	2.8	10.6	21.0	5.55	9	2.74	2.5	0.76
	30	5	14.6	36.3	2994	84.8	21.7	7	1.75	0.12	2.8	10.6	21.0	5.55	8	2.44	3	0.91
	60	5	19.3	48.0	2585	73.2	21.2	7	1.75	0.12	2.8	10.6	21.0	5.55	8	2.44	3.5	1.07
100%	0	10	41.6	103.5	4900	138.8	30.6	10	1.75	0.12	5.05	19.1	28.0	7.41	12	3.66	2.5	0.76
	30	10	45.7	113.7	4132	117.0	28.4	10	1.75	0.12	5.05	19.1	28.0	7.41	10	3.05	3.5	1.07
	60	10	49.2	122.4	4132	117.0	26.3	10	1.75	0.12	5.05	19.1	28.0	7.41	9	2.74	4	1.22
Not Firing	0	10	40.5	100.8	4845	137.2	30.8											
	30	10	44.0	109.5	4733	134.0	29.2											
	60	10	48.0	119.4	4259	120.6	27.3											

Table Issue Date	July 2016
Test Date	September 2004
Ambient Temperature	102°F (39°C)
Barometric Pressure	29.49 in.Hg (748 mm Hg)
Blower Size	Hauck TBA 36-25
Blower 100% / 115%	30.0 / 34.5 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	2.0 inch butterfly valve / OMG240 with 3.004 inch Bore
Sleeve Type	Low Velocity

Hauck StarJet 150G 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	1.5	0.1	0.2	1642	46.5	15.7	1	245	16.89	0.7	2.6	3.8	1.01	1	0.30	2	0.61
	30	1.5	0.2	0.5	1642	46.5	15.7	1	245	16.89	0.7	2.6	3.8	1.01	1	0.30	2	0.61
	60	1.5	0.6	1.5	1642	46.5	15.6	1	245	16.89	0.7	2.6	3.8	1.01	1	0.30	2	0.61
25%	0	2.5	0.8	2.0	1793	50.8	16.7	1.25	245	16.89	1.3	4.9	7.1	1.88	1	0.30	4	1.22
	30	2.5	1.2	3.0	1734	49.1	16.7	1.25	245	16.89	1.3	4.9	7.1	1.88	1	0.30	4	1.22
	60	2.5	2.1	5.2	1793	50.8	16.6	1.25	245	16.89	1.3	4.9	7.1	1.88	1	0.30	4	1.22
50%	0	5	9.1	22.6	3003	85.0	21.8	2	245	16.89	2.6	9.8	14.2	3.76	3	0.91	5	1.52
	30	5	11.9	29.6	2898	82.1	21.5	2	245	16.89	2.6	9.8	14.2	3.76	2	0.61	6	1.83
	60	5	16.6	41.3	2770	78.4	21.2	2	245	16.89	2.6	9.8	14.2	3.76	2	0.61	7	2.13
75%	0	6.5	22.8	56.7	4136	117.1	26.8	2.5	245	16.89	3.8	14.3	20.7	5.48	4	1.22	4	1.22
	30	6.5	27.7	68.9	3671	104.0	25.9	2.5	245	16.89	3.8	14.3	20.7	5.48	3	0.91	5.5	1.68
	60	6.5	34.4	85.6	3671	104.0	24.5	2.5	245	16.89	3.8	14.3	20.7	5.48	3	0.91	6	1.83
100%	0	10	43.4	108.0	4776	135.3	31.6	7	245	16.89	5.1	19.3	27.8	7.35	9	2.74	4	1.22
	30	10	46.5	115.7	4553	128.9	29.2	7	245	16.89	5.1	19.3	27.8	7.35	5	1.52	5	1.52
	60	10	50.6	125.9	4073	115.3	26.8	7	245	16.89	5.1	19.3	27.8	7.35	3	0.91	6	1.83
Not Firing	0	10	42.5	105.7	5091	144.2	31.9											
	30	10	48.4	120.4	4666	132.1	28.8											
	60	10	51.2	127.4	4198	118.9	27.4											

Table Issue Date	July 2016
Test Date	September 2004
Ambient Temperature	84°F (29°C)
Barometric Pressure	29.49 in.Hg (747 mm Hg)
Blower Size	Hauck TBA 36-25
Blower 100% / 115%	30.0 / 34.5 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 HB-1/2-16W
Sleeve Type	Low Velocity