

Hauck StarJet 580F 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	1.0	2.5	1760	49.8	49.8	0	80	5.52	1.99	7.5	16.5	4.36	2	0.61	2	0.61
	30	1	1.0	2.5	1850	52.4	50.0	0	80	5.52	1.99	7.5	16.5	4.36	2	0.61	3	0.91
	60	1	1.0	2.5	1760	49.8	49.9	0	80	5.52	1.99	7.5	16.5	4.36	2	0.61	3	0.91
25%	0	3	4.0	10.0	3329	94.3	64.5	2	78	5.38	3.6	13.7	30.0	7.94	2	0.61	2	0.61
	30	3	5.0	12.4	3280	92.9	65.7	2	78	5.38	3.6	13.7	30.0	7.94	2	0.61	3	0.91
	60	3	6.0	14.9	3304	93.6	64.8	2	78	5.38	3.6	13.7	30.0	7.94	2	0.61	3.5	1.07
50%	0	5.5	20.0	49.8	5709	161.7	90.5	4	72	4.96	7.2	27.4	60.0	15.87	7	2.13	3	0.91
	30	5.5	22.0	54.7	5417	153.4	89.6	4	72	4.96	7.2	27.4	60.0	15.87	6	1.83	3	0.91
	60	5.5	25.0	62.2	5417	153.4	89.5	4	72	4.96	7.2	27.4	60.0	15.87	5	1.52	4	1.22
75%	0	6.5	31.0	77.1	5850	165.7	102.3	5	66	4.55	10.9	41.1	90.0	23.81	10	3.05	5	1.52
	30	6.5	33.0	82.1	6510	184.4	99.7	5	66	4.55	10.9	41.1	90.0	23.81	10	3.05	6	1.83
	60	6.5	36.0	89.6	6447	182.6	98.3	5	66	4.55	10.9	41.1	90.0	23.81	10	3.05	6.5	1.98
100%	0	10	53.0	131.9	8075	228.7	118.7	8	58	4.00	14.5	54.9	120.0	31.74	15	4.57	5	1.52
	30	10	56.0	139.3	7445	210.8	115.6	8	58	4.00	14.5	54.9	120.0	31.74	14	4.27	6	1.83
	60	10	59.0	146.8	7222	204.5	112.6	8	58	4.00	14.5	54.9	120.0	31.74	10	3.05	6.5	1.98
Not Firing	0	10	55.0	136.8	8175	231.5	119.0											
	30	10	57.0	141.8	7922	224.4	115.4											
	60	10	60.0	149.3	7222	204.5	113.6											

Table Issue Date	July 2016
Test Date	September 2004
Ambient Temperature	74°F (23°C)
Barometric Pressure	29.7 in.Hg (754 mm Hg)
Blower Size	Hauck TBA 36-100
Blower 100% / 115%	119 / 137 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 580F 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	1.0	2.5	1925	54.5	49.9	1.5	4.0	0.28	0.09	0.2	10.5	2.78	2	0.61	1	0.30
	30	1	1.0	2.5	1883	53.3	49.8	1.5	4.0	0.28	0.09	0.3	10.5	2.78	2	0.61	1	0.30
	60	1	1.0	2.5	1925	54.5	50.1	1.5	4.0	0.28	0.09	0.3	10.5	2.78	2	0.61	1	0.30
25%	0	3	4.0	10.0	2950	83.5	61.1	2.5	4.0	0.28	0.7	2.6	30.0	7.94	12	3.66	2	0.61
	30	3	3.0	7.5	3057	86.6	61.2	2.5	4.0	0.28	0.7	2.6	30.0	7.94	10	3.05	3	0.91
	60	3	3.0	7.5	3135	88.8	62.9	2.5	4.0	0.28	0.7	2.6	30.0	7.94	10	3.05	3.5	1.07
50%	0	4.5	10.0	24.9	4305	121.9	80.7	4	4.0	0.28	3.1	11.7	60.0	15.87	13	3.96	4	1.22
	30	4.5	10.0	24.9	4750	134.5	81.2	4	4.0	0.28	3.1	11.7	60.0	15.87	12	3.66	4.5	1.37
	60	4.5	11.0	27.4	4577	129.6	81.3	4	4.0	0.28	3.1	11.7	60.0	15.87	10	3.05	7	2.13
75%	0	6.5	28.0	69.7	6953	196.9	107.4	5.5	4	0.28	7.15	27.1	90.0	23.81	15	4.57	4	1.22
	30	6.5	30.0	74.6	6895	195.3	106.9	5.5	4	0.28	7.15	27.1	90.0	23.81	10	3.05	6	1.83
	60	6.5	30.0	74.6	6836	193.6	106.3	5.5	4	0.28	7.15	27.1	90.0	23.81	10	3.05	7	2.13
100%	0	10	48.0	119.4	8749	247.8	131.0	10	4	0.28	12.9	48.6	120.0	31.74	15	4.57	6	1.83
	30	10	48.0	119.4	8324	235.7	129.7	10	4	0.28	12.9	48.6	120.0	31.74	10	3.05	8	2.44
	60	10	51.0	126.9	8610	243.8	125.2	10	4	0.28	12.9	48.6	120.0	31.74	10	3.05	9	2.74
Not Firing	0	10	50.0	124.4	8703	246.5	128.0											
	30	10	52.0	129.4	8516	241.2	122.9											
	60	10	53.0	131.9	7928	224.5	120.6											

Table Issue Date	July 2016
Test Date	September 2004
Ambient Temperature	68°F (20°C)
Barometric Pressure	29.7 in.Hg (754 mm Hg)
Blower Size	Hauck TBA 36-100
Blower 100% / 115%	119 / 137 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	4 inch butterfly valve / OMG260 with 4.8 inch Bore
Sleeve Type	Low Velocity

Hauck StarJet 580F 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	1.0	2.5	1912	54.1	50.2	1	195	13.45	1.0	3.8	5.5	1.45	3	0.91	1	0.30
	30	1	1.0	2.5	1912	54.1	50.1	1	195	13.45	1.0	3.8	5.5	1.45	3	0.91	1.5	0.46
	60	1	1.0	2.5	1912	54.1	50.8	1	195	13.45	1.0	3.8	5.5	1.45	3	0.91	1.5	0.46
25%	0	3.5	3.0	7.5	3653	103.5	69.5	2.5	195	13.45	5.5	20.8	30.0	7.94	4	1.22	4	1.22
	30	3.5	3.5	8.7	3760	106.5	68.6	2.5	195	13.45	5.5	20.8	30.0	7.94	4	1.22	4	1.22
	60	3.5	4.0	10.0	3697	104.7	68.9	2.5	195	13.45	5.5	20.8	30.0	7.94	5	1.52	4	1.22
50%	0	6	26.0	64.7	6428	182.0	102.4	3.5	190	13.10	11.0	41.6	60.0	15.87	13	3.96	3	0.91
	30	6	28.0	69.7	6240	176.7	101.8	3.5	190	13.10	11.0	41.6	60.0	15.87	10	3.05	4	1.22
	60	6	30.0	74.6	5495	155.6	100.2	3.5	190	13.10	11.0	41.6	60.0	15.87	9	2.74	4.5	1.37
75%	0	7.5	40.0	99.5	7019	198.8	115.7	4.5	185	12.76	16.5	62.4	90.0	23.81	15	4.57	5	1.52
	30	7.5	44.0	109.5	7075	200.4	111.4	4.5	185	12.76	16.5	62.4	90.0	23.81	14	4.27	5	1.52
	60	7.5	45.0	112.0	7075	200.4	111.8	4.5	185	12.76	16.5	62.4	90.0	23.81	12	3.66	5	1.52
100%	0	10	56.0	139.3	7186	203.5	118.0	8	180	12.41	22.0	83.2	120.0	31.74	16	4.88	5	1.52
	30	10	53.0	131.9	8072	228.6	122.1	8	180	12.41	22.0	83.2	120.0	31.74	16	4.88	5	1.52
	60	10	56.0	139.3	7872	222.9	115.9	8	180	12.41	22.0	83.2	120.0	31.74	14	4.27	5.5	1.68
Not Firing	0	10	50.0	124.4	8642	244.7	128.4											
	30	10	53.0	131.9	8169	231.4	122.5											
	60	10	54.0	134.4	7719	218.6	119.9											

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 36-100
Blower 100% / 115%	119 / 137 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