

Hauck StarJet 360E 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	2.0	5.0	1717	48.6	43.4	Bypass	47	3.24	1.51	5.7	12.5	3.31	5	1.52	2	0.61	
	30	1	3.0	7.5	1717	48.6	43.2	Set At	47	3.24	1.51	5.7	12.5	3.31	5	1.52	2	0.61	
	60	1	3.5	8.7	1717	48.6	43.2	Pos. 4	47	3.24	1.51	5.7	12.5	3.31	5	1.52	2	0.61	
25%	0	3	16.0	39.8	2862	81.1	53.2	2.5	47	3.24	2.3	8.7	19.0	5.03	6	1.83	2.5	0.76	
	30	3	19.0	47.3	2670	75.6	52.5	2.5	47	3.24	2.3	8.7	19.0	5.03	3	0.91	3	0.91	
	60	3	21.0	52.2	2575	72.9	51.8	2.5	47	3.24	2.3	8.7	19.0	5.03	2	0.61	3	0.91	
50%	0	5	36.0	89.6	3721	105.4	63.8	4.5	44	3.03	4.6	17.3	37.8	10.00	14	4.27	3.5	1.07	
	30	5	39.0	97.0	3530	100.0	62.6	4.5	44	3.03	4.6	17.3	37.8	10.00	12	3.66	3.5	1.07	
	60	5	42.0	104.5	3339	94.6	60.9	4.5	44	3.03	4.6	17.3	37.8	10.00	11	3.35	4	1.22	
75%	0	6	41.6	103.5	4388	124.3	69.7	5.5	41	2.83	6.8	25.9	56.7	15.00	17	5.18	4	1.22	
	30	6	48.5	120.7	4198	118.9	66.3	5.5	41	2.83	6.8	25.9	56.7	15.00	15	4.57	5	1.52	
	60	6	48.5	120.7	3721	105.4	64.2	5.5	41	2.83	6.8	25.9	56.7	15.00	15	4.57	5.5	1.68	
100%	0	10	62.3	155.0	4961	140.5	78.3	9	38	2.62	9.1	34.6	75.6	20.00	20	6.10	4	1.22	
	30	10	62.3	155.0	4484	127.0	74.4	9	38	2.62	9.1	34.6	75.6	20.00	17.5	5.33	4.5	1.37	
	60	10	62.3	155.0	4102	116.2	68.5	9	38	2.62	9.1	34.6	75.6	20.00	18	5.49	6	1.83	
Not Firing	0	10	62.3	155.0	5247	148.6	79.5												
	30	10	62.3	155.0	4579	129.7	74.5												
	60	10	62.3	155.0	4675	132.4	72.4												

Table Issue Date	July 2016
Test Date	September 2004
Ambient Temperature	73°F (23°C)
Barometric Pressure	29.7 in.Hg (754 mm Hg)
Blower Size	Hauck TBA 36-75
Blower 100% / 115%	87 / 100 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 FL-1/2-24 / S-3-1610C
Sleeve Type	High Velocity



Hauck StarJet 360E 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	0.5	1.2	1717	48.6	43.4	1.5	4	0.28	0.03	0.1	6.0	1.59	1	0.30	1.5	0.46
	30	1	1.0	2.5	1717	48.6	43.4	1.5	4	0.28	0.03	0.1	6.0	1.59	1	0.30	1.5	0.46
	60	1	1.0	2.5	1717	48.6	43.4	1.5	4	0.28	0.03	0.1	6.0	1.59	1	0.30	1.5	0.46
25%	0	2	4.0	10.0	1908	54.0	47.0	2.5	3.75	0.26	0.25	0.9	19.0	5.03	9	2.74	2	0.61
	30	2	4.0	10.0	1908	54.0	46.6	2.5	3.75	0.26	0.25	0.9	19.0	5.03	9	2.74	2.5	0.76
	60	2	5.0	12.4	2003	56.7	46.9	2.5	3.75	0.26	0.25	0.9	19.0	5.03	8	2.44	2.5	0.76
50%	0	3	11.0	27.4	2767	78.4	53.8	4	3.5	0.24	1.15	4.4	37.8	10.00	15	4.57	2.5	0.76
	30	3	13.0	32.3	2862	81.1	53.3	4	3.5	0.24	1.15	4.4	37.8	10.00	13	3.96	3	0.91
	60	3	14.0	34.8	2767	78.4	53.4	4	3.5	0.24	1.15	4.4	37.8	10.00	12	3.66	3	0.91
75%	0	5	28.0	69.7	4102	116.2	66.4	5.5	2.75	0.19	2.8	10.6	56.7	15.00	15	4.57	3.5	1.07
	30	5	31.0	77.1	4007	113.5	65.3	5.5	2.75	0.19	2.8	10.6	56.7	15.00	13	3.96	3.5	1.07
	60	5	34.0	84.6	4007	113.5	63.8	5.5	2.75	0.19	2.8	10.6	56.7	15.00	11	3.35	4	1.22
100%	0	10	55.4	137.8	6010	170.2	84.8	10	2.25	0.16	4.9	18.5	75.6	20.00	16	4.88	3	0.91
	30	10	62.3	155.0	5152	145.9	80.4	10	2.25	0.16	4.9	18.5	75.6	20.00	14	4.27	4.5	1.37
	60	10	62.3	155.0	4675	132.4	75.8	10	2.25	0.16	4.9	18.5	75.6	20.00	13	3.96	4.5	1.37
Not Firing	0	10	55.4	137.8	5915	167.5	87.0											
	30	10	62.3	155.0	5247	148.6	82.5											
	60	10	62.3	155.0	4960	140.5	76.0											

Table Issue Date	July 2016
Test Date	September 2004
Ambient Temperature	72°F (22°C)
Barometric Pressure	29.7 in.Hg (754 mm Hg)
Blower Size	Hauck TBA 36-75
Blower 100% / 115%	87 / 100 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 360E 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	2.5	1717	48.6	43.2	1	240	16.55	1.8	6.8	9.8	2.59	3	0.91	2.5	0.76
	30	1	1	2.5	1717	48.6	43.7	1	240	16.55	1.8	6.8	9.8	2.59	3	0.91	2.5	0.76
	60	1	1	2.5	1717	48.6	43.5	1	240	16.55	1.8	6.8	9.8	2.59	3	0.91	2.5	0.76
25%	0	2	2	5.0	2003	56.7	45.9	1.5	240	16.55	3.5	13.2	19.0	5.03	8	2.44	3.5	1.07
	30	2	3	7.5	2003	56.7	45.9	1.5	240	16.55	3.5	13.2	19.0	5.03	7	2.13	3.5	1.07
	60	2	4	10.0	2003	56.7	46.2	1.5	240	16.55	3.5	13.2	19.0	5.03	7	2.13	3.5	1.07
50%	0	4	17	42.3	3339	94.6	58.0	2.5	240	16.55	6.9	26.2	37.8	10.00	13	3.96	4	1.22
	30	4	20	49.8	3244	91.9	57.7	2.5	240	16.55	6.9	26.2	37.8	10.00	13	3.96	4	1.22
	60	4	22	54.7	3244	91.9	56.9	2.5	240	16.55	6.9	26.2	37.8	10.00	12	3.66	4.5	1.37
75%	0	6.5	48	119.4	4675	132.4	75.3	5	235	16.20	10.4	39.3	56.7	15.00	16.5	5.03	4	1.22
	30	6.5	50	124.4	5342	151.3	72.9	5	235	16.20	10.4	39.3	56.7	15.00	16	4.88	4.5	1.37
	60	6.5	52	129.4	4293	121.6	70.7	5	235	16.20	10.4	39.3	56.7	15.00	14	4.27	5	1.52
100%	0	10	54.4	135.3	5342	151.3	80.2	9	230	15.86	13.8	52.4	75.6	20.00	19	5.79	4	1.22
	30	10	54.4	135.3	5247	148.6	78.2	9	230	15.86	13.8	52.4	75.6	20.00	17	5.18	5.5	1.68
	60	10	62.3	155.0	4484	127.0	73.9	9	230	15.86	13.8	52.4	75.6	20.00	15	4.57	5.5	1.68
Not Firing	0	10	54.4	135.3	5152	145.9	81.9											
	30	10	62.3	155.0	5342	151.3	78.9											
	60	10	62.3	155.0	4675	132.4	73.2											

Table Issue Date	July 2016
Test Date	September 2004
Ambient Temperature	72°F (22°C)
Barometric Pressure	29.7 in.Hg (754 mm Hg)
Blower Size	Hauck TBA 36-75
Blower 100% / 115%	87 / 100 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 H-1/2-24
Sleeve Type	Low Velocity