

Motor specifications

See **Wiring Diagram**, page 7

Electronics Max Power: 300 watts. Any performance points in yellow highlight (following page) exceeds 300 watts.

Note: Testing performed in a controlled laboratory environment. Actual performance may vary (+) or (-) 10% from the information shown.



30 VDC							
Flow (GPM)	Flow (L)	Ttl. Hd. (Ft)	Ttl. Hd. (PSI)	Ttl. Hd. (M)	Watts	Volts	Amps
18.92	71.61	29.10	12.62	8.87	314.78	30.01	10.49
18.49	69.98	30.28	13.13	9.23	314.34	30.01	10.48
17.46	66.09	33.12	14.36	10.10	313.42	30.01	10.44
16.44	62.25	37.91	16.44	11.56	311.50	30.01	10.38
15.49	58.63	41.29	17.90	12.59	309.38	30.01	10.31
14.26	53.97	45.24	19.61	13.79	306.52	30.01	10.21
13.39	50.69	47.93	20.78	14.61	303.67	30.01	10.12
12.06	45.67	52.47	22.75	16.00	299.28	30.01	9.97
11.34	42.94	55.06	23.87	16.79	295.70	30.01	9.85
10.32	39.05	58.24	25.25	17.76	289.78	30.01	9.66
9.42	35.64	61.95	26.86	18.89	283.99	30.01	9.46
8.29	31.39	67.44	29.24	20.56	275.84	30.01	9.19
7.17	27.14	70.49	30.56	21.49	268.03	30.01	8.93
5.41	20.47	73.10	31.69	22.29	240.01	30.01	8.00
4.40	16.64	75.62	32.78	23.05	236.39	30.01	7.88
3.37	12.75	81.31	35.25	24.79	232.67	30.01	7.75
2.34	8.87	84.17	36.49	25.66	221.86	30.01	7.39
1.33	5.04	87.44	37.91	26.66	210.79	30.01	7.02
0.74	2.79	94.13	40.81	28.70	204.80	30.01	6.83
0.00	0.00	93.93	40.72	28.64	196.93	30.01	6.56

27 VDC							
Flow (GPM)	Flow (L)	Ttl. Hd. (Ft)	Ttl. Hd. (PSI)	Ttl. Hd. (M)	Watts	Volts	Amps
16.02	60.64	24.36	10.56	7.43	213.93	27.01	7.92
15.09	57.11	25.74	11.16	7.85	213.29	27.01	7.90
14.05	53.19	30.67	13.30	9.35	213.58	27.01	7.91
13.13	49.69	33.99	14.73	10.36	212.84	27.01	7.88
12.07	45.67	36.73	15.92	11.20	212.67	27.01	7.88
11.01	41.67	40.74	17.66	12.42	212.50	27.01	7.87
9.84	37.24	45.72	19.82	13.94	211.63	27.01	7.84
9.02	34.13	49.04	21.26	14.95	210.74	27.01	7.80
7.83	29.63	53.80	23.33	16.40	210.22	27.01	7.78
6.91	26.15	58.19	25.23	17.74	209.89	27.01	7.77
6.07	22.97	59.86	25.95	18.25	211.09	27.01	7.82
5.06	19.15	61.49	26.66	18.75	201.79	27.01	7.47
4.01	15.18	66.07	28.64	20.14	192.56	27.01	7.13
3.01	11.39	67.79	29.39	20.67	183.70	27.01	6.80
1.99	7.55	74.84	32.44	22.82	174.78	27.01	6.47
0.96	3.64	77.79	33.72	23.72	164.92	27.01	6.11
0.74	2.82	78.90	34.20	24.05	162.54	27.01	6.02
0.00	0.00	79.72	34.56	24.31	155.35	27.01	5.75

Note: Testing performed in a controlled laboratory environment. Actual performance may vary (+) or (-) 10% from the information shown.



180 Hines Ave. • Bellville, OH 44813 • PH: 419-886-3001 • FAX: 419-886-2338 • www.GRIpumps.com

24 VDC							
Flow (GPM)	Flow (L)	Ttl. Hd. (Ft)	Ttl. Hd. (PSI)	Ttl. Hd. (M)	Watts	Volts	Amps
15.37	58.18	22.80	9.88	6.95	187.39	24.01	7.81
14.76	55.87	24.54	10.64	7.48	186.82	24.01	7.78
13.95	52.81	28.04	12.16	8.55	186.43	24.01	7.77
12.66	47.92	31.19	13.52	9.51	186.78	24.01	7.78
11.60	43.91	34.32	14.88	10.46	188.11	24.01	7.84
10.85	41.08	37.05	16.06	11.30	186.04	24.01	7.75
9.64	36.48	40.58	17.59	12.37	182.02	24.01	7.58
8.67	32.81	43.31	18.78	13.21	178.22	24.01	7.42
7.62	28.84	47.27	20.49	14.41	172.98	24.01	7.21
6.64	25.15	50.42	21.86	15.37	168.63	24.01	7.02
5.69	21.54	50.97	22.10	15.54	165.20	24.01	6.88
4.63	17.52	56.01	24.28	17.07	156.01	24.01	6.50
3.56	13.46	57.07	24.74	17.40	148.57	24.01	6.19
2.55	9.66	57.90	25.10	17.65	140.84	24.01	5.87
1.55	5.87	61.46	26.64	18.74	132.67	24.01	5.53
0.73	2.78	65.03	28.19	19.83	125.75	24.01	5.24
0.00	0.00	67.46	29.25	20.57	119.65	24.01	4.98

21 VDC							
Flow (GPM)	Flow (L)	Ttl. Hd. (Ft)	Ttl. Hd. (PSI)	Ttl. Hd. (M)	Watts	Volts	Amps
13.83	52.37	18.49	8.02	5.64	145.69	21.00	6.94
13.53	51.21	21.40	9.28	6.52	145.63	21.00	6.93
12.40	46.92	24.79	10.75	7.56	144.63	21.01	6.89
11.22	42.47	27.60	11.97	8.41	142.84	21.00	6.80
10.25	38.80	29.87	12.95	9.11	140.66	21.00	6.70
8.97	33.96	32.75	14.20	9.98	137.35	21.01	6.54
8.27	31.31	34.41	14.92	10.49	135.05	21.01	6.43
7.16	27.10	38.02	16.48	11.59	130.27	21.00	6.20
6.02	22.79	41.30	17.90	12.59	124.69	21.00	5.94
4.95	18.74	42.68	18.50	13.01	122.19	21.01	5.82
3.98	15.08	44.80	19.42	13.66	115.01	21.01	5.48
2.93	11.08	46.87	20.32	14.29	108.15	21.00	5.15
1.92	7.27	49.33	21.39	15.04	101.57	21.00	4.84
0.92	3.48	52.08	22.58	15.88	94.48	21.00	4.50
0.74	2.80	52.88	22.92	16.12	93.26	21.00	4.44
0.00	0.00	56.03	24.29	17.08	88.18	21.01	4.20

Note: Testing performed in a controlled laboratory environment. Actual performance may vary (+) or (-) 10% from the information shown.



180 Hines Ave. • Bellville, OH 44813 • PH: 419-886-3001 • FAX: 419-886-2338 • www.GRIpumps.com

18 VDC							
Flow (GPM)	Flow (L)	Ttl. Hd. (Ft)	Ttl. Hd. (PSI)	Ttl. Hd. (M)	Watts	Volts	Amps
12.37	46.84	16.28	7.06	4.96	104.19	18.00	5.79
11.72	44.36	17.53	7.60	5.35	103.21	18.00	5.73
10.75	40.69	20.47	8.87	6.24	102.39	18.00	5.69
9.55	36.14	23.10	10.01	7.04	100.60	18.00	5.59
8.41	31.84	25.35	10.99	7.73	98.28	18.00	5.46
7.63	28.89	26.75	11.60	8.16	96.25	18.00	5.35
6.63	25.09	30.04	13.02	9.16	92.97	18.00	5.16
6.00	22.69	31.37	13.60	9.56	90.62	18.00	5.03
5.21	19.72	31.89	13.82	9.72	89.19	18.00	4.95
4.21	15.93	33.44	14.50	10.19	85.44	18.00	4.75
3.21	12.14	35.03	15.19	10.68	79.29	18.00	4.40
2.18	8.27	37.21	16.13	11.34	73.65	18.00	4.09
1.18	4.47	37.62	16.31	11.47	68.06	18.00	3.78
0.74	2.78	43.91	19.04	13.39	65.15	18.00	3.62
0.00	0.00	42.60	18.47	12.99	61.60	18.00	3.42

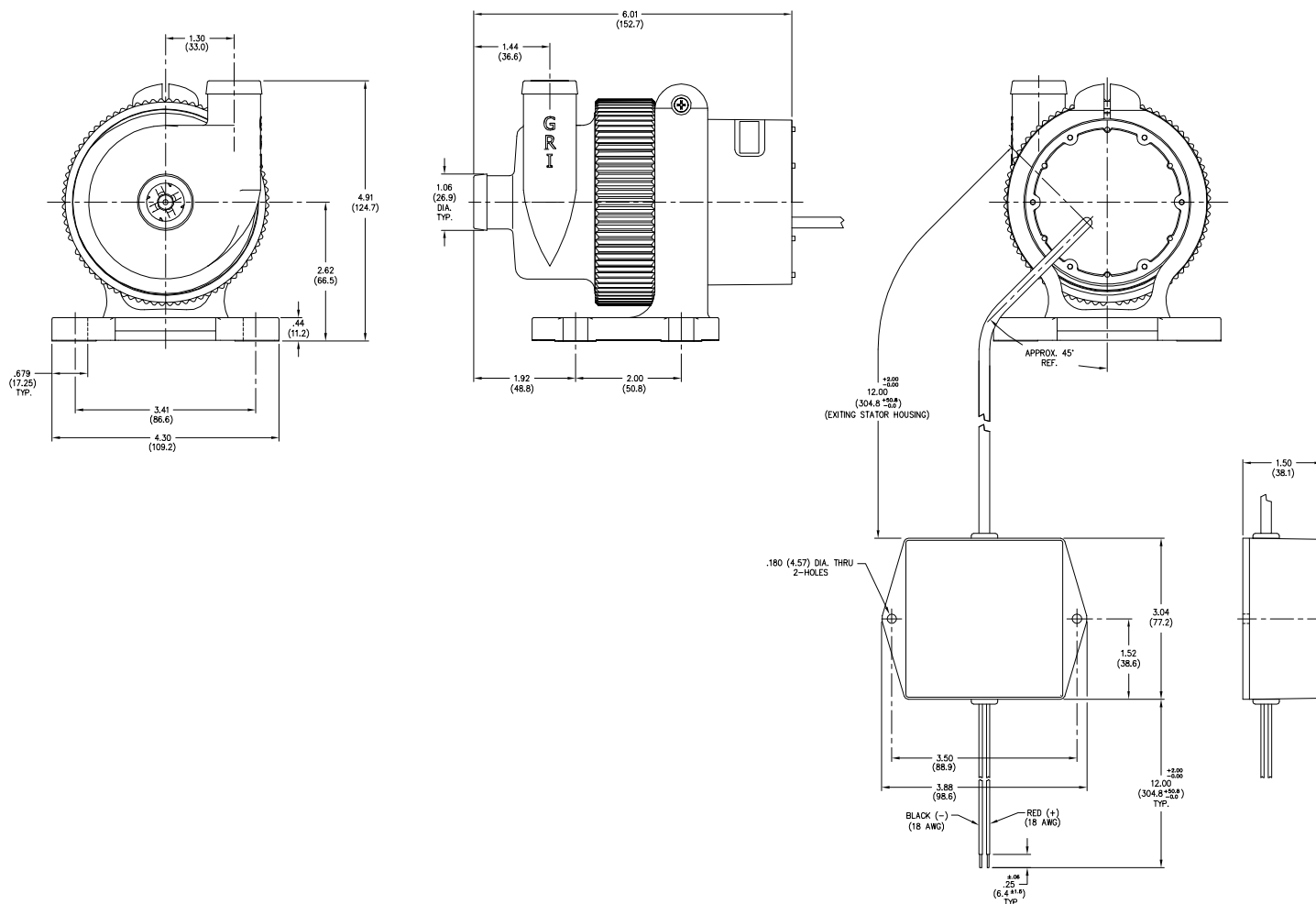
12 VDC							
Flow (GPM)	Flow (L)	Ttl. Hd. (Ft)	Ttl. Hd. (PSI)	Ttl. Hd. (M)	Watts	Volts	Amps
8.28	31.35	9.32	4.04	2.84	40.00	12.00	3.33
7.47	28.29	10.74	4.65	3.27	39.41	12.00	3.28
6.42	24.28	12.81	5.55	3.90	38.38	12.00	3.20
6.14	23.23	13.26	5.75	4.04	37.97	12.00	3.16
4.42	16.72	14.82	6.42	4.52	35.82	12.00	2.98
3.49	13.21	16.85	7.31	5.14	33.78	12.00	2.81
2.45	9.27	17.99	7.80	5.49	30.61	12.00	2.55
1.46	5.51	19.48	8.45	5.94	27.47	12.00	2.29
0.74	2.79	20.48	8.88	6.24	25.19	12.00	2.10
0.00	0.00	21.30	9.23	6.49	22.90	12.00	1.91

15 VDC							
Flow (GPM)	Flow (L)	Ttl. Hd. (Ft)	Ttl. Hd. (PSI)	Ttl. Hd. (M)	Watts	Volts	Amps
10.82	40.97	11.84	5.13	3.61	68.63	15.00	4.57
9.92	37.55	13.95	6.05	4.25	68.15	15.00	4.54
9.18	34.76	16.07	6.97	4.90	67.23	15.00	4.48
8.07	30.56	17.86	7.74	5.44	65.88	15.00	4.39
7.02	26.56	20.60	8.93	6.28	63.96	15.00	4.26
6.08	23.00	21.67	9.40	6.61	61.76	15.00	4.12
4.90	18.56	22.85	9.91	6.97	60.03	15.00	4.00
3.87	14.65	24.66	10.69	7.52	56.94	15.00	3.80
2.93	11.10	26.40	11.44	8.05	52.22	15.00	3.48
1.88	7.10	28.85	12.51	8.80	47.81	15.00	3.19
0.87	3.30	30.47	13.21	9.29	43.35	15.00	2.89
0.73	2.76	30.33	13.15	9.25	42.82	15.00	2.85
0.00	0.00	32.94	14.28	10.04	39.62	15.00	2.64

Note: Testing performed in a controlled laboratory environment. Actual performance may vary (+) or (-) 10% from the information shown.



180 Hines Ave. • Bellville, OH 44813 • PH: 419-886-3001 • FAX: 419-886-2338 • www.GRIpumps.com



General Specifications

Max Fluid Temp	203°F (95°C)
Max System Pressure	75 PSI
Inlet / Outlet	1" MHB
Weight	3.52 lbs (56.25 oz)
Supply Voltage	12 - 30 VDC

Wetted Materials

Pump Body	PPS
Pump Adapter	PPS
Impeller	PPS
Impeller Shaft	Ceramic
Static O-Ring	EPDM



WIRING INSTRUCTIONS

It is recommended that the customer provide circuit over current protection to the pump. 10 amp fast acting fuse is recommended.

INTEGRITY Model pumps can be purchased with an optional remote motor speed control. Speed is controlled by a nominal 0-5 volt DC signal. (Actual control voltage is between 1.5 and 4.0).

