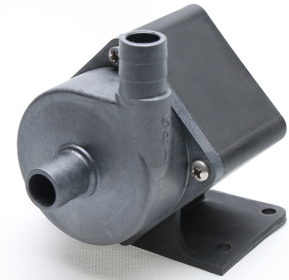


Do Not Run Pumps Dry. Must have a flooded suction environment.

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



Performance, Electrical Data

24 VDC								
FLOW		TOTAL HEAD				POWER		
GPM	LPM	FEET	PSI	BAR	METER	WATTS	VOLTS	AMPS
2.52	9.55	6.26	2.71	0.19	1.91	17.91	24.01	0.75
2.00	7.58	8.48	3.68	0.25	2.59	17.23	24.01	0.72
1.56	5.91	10.02	4.34	0.30	3.05	16.59	24.01	0.69
1.06	4.01	11.64	5.05	0.35	3.55	15.76	24.01	0.66
0.73	2.78	12.79	5.54	0.38	3.90	15.28	24.01	0.64
0.00	0.00	15.70	6.81	0.47	4.79	14.83	24.01	0.62

21 VDC								
FLOW		TOTAL HEAD				POWER		
GPM	LPM	FEET	PSI	BAR	METER	WATTS	VOLTS	AMPS
2.36	8.92	5.76	2.50	0.17	1.76	13.66	21.00	0.65
1.93	7.31	7.19	3.12	0.22	2.19	13.18	21.00	0.63
1.40	5.31	8.79	3.81	0.26	2.68	12.57	21.01	0.60
0.91	3.44	10.31	4.47	0.31	3.14	11.86	21.01	0.56
0.74	2.82	11.11	4.82	0.33	3.39	11.66	21.00	0.56
0.00	0.00	14.34	6.22	0.43	4.37	10.69	21.01	0.51

18 VDC								
FLOW		TOTAL HEAD				POWER		
GPM	LPM	FEET	PSI	BAR	METER	WATTS	VOLTS	AMPS
2.12	8.02	4.73	2.05	0.14	1.44	10.01	18.00	0.56
1.61	6.10	6.00	2.60	0.18	1.83	9.55	18.00	0.53
1.12	4.25	7.49	3.25	0.22	2.28	9.03	18.00	0.50
0.76	2.86	8.55	3.71	0.26	2.61	8.59	18.00	0.48
0.00	0.00	11.14	4.83	0.33	3.39	7.77	18.00	0.43

15 VDC								
FLOW		TOTAL HEAD				POWER		
GPM	LPM	FEET	PSI	BAR	METER	WATTS	VOLTS	AMPS
1.84	6.98	3.58	1.55	0.11	1.09	6.90	15.00	0.46
1.37	5.20	5.00	2.17	0.15	1.52	6.53	15.00	0.44
0.89	3.38	6.09	2.64	0.18	1.86	6.13	15.00	0.41
0.76	2.89	6.62	2.87	0.20	2.02	6.01	15.00	0.40
0.00	0.00	8.63	3.74	0.26	2.63	5.32	15.00	0.35

12 VDC								
FLOW		TOTAL HEAD				POWER		
GPM	LPM	FEET	PSI	BAR	METER	WATTS	VOLTS	AMPS
1.58	5.98	2.65	1.15	0.08	0.81	4.36	12.00	0.36
1.08	4.10	3.80	1.65	0.11	1.16	4.07	12.00	0.34
0.76	2.87	4.41	1.91	0.13	1.34	3.85	12.00	0.32
0.00	0.00	6.09	2.64	0.18	1.86	3.38	12.00	0.28

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



Electrical Specifications / Wiring Diagram

18W/24V INTG1		
Wire Colors		
Power (V+/V-)	Red/Black	
Speed	N/A	
	Tach	N/A
Operating Voltage Range	12-24 V	
Current at Nominal Voltage	0.75 A (at 24 V)	
Maximum Wattage	18 W	
Speed Control (DC Input)		Note: The negative of the control signal must be referenced to the negative of the pump supply. Input impedance of speed control is typically 100K Ohms
ANALOG		
Voltage Range (Nominal)	N/A	
Voltage Range (Actual)	N/A	Note: this varies with different wattage limits; pumps with lower limits may reach max performance before 4V.
Tach Signal (DC Output)		Note: The tach signal is a square wave; slew rate 40 micro sec/5 volt. Push/pull output. 6 pulses/revolution.
OPTIONAL	Frequency	N/A
	Voltage Range	N/A
	RPM Calculation	N/A
Start-Up Time	< 3 seconds	Note: Pump may take somewhat longer depending on the power supply.
Max Inrush Current		
At Start-Up	22.4 A	
50 to 100% Performance	N/A	
Recommended Fuse	1.5 A (fast-acting)	



General Specifications, Wetted Materials

Do Not Run Pumps Dry. Pumps must be in a continuous flooded suction environment.

General Specifications	
In-House Stator	115 Turns, 31 AWG
Motor Magnets	Bonded Neodymium
Suction Port	1/2" MHB
Discharge Port	1/2" MHB
Max Fluid Temp	149°F (65°C)
Max System Pressure	50 PSI
Weight	Approximately .8 LBS
Product Test Report	PTR24147

Wetted Materials	
Pump Body	PPS
Housing	PPS
Impeller	PPS
Impeller Shaft	Stainless Steel
Static O-Ring	EPDM
RoHS/REACH	
Many GRI pumps are RoHS & REACH compliant. For declarations by specific model numbers, please contact GRI.	



INTG1S-280 H Drawing & Dimensions

