



Self-Priming Irrigator Centrifugal Pumps

LGT SERIES



Specifications

- Power Range : 0.75HP - 1.5HP, 115/230V Capacitor Start
2HP, 230V Capacitor Start
- 60Hz, Single Phase, 3450 RPM
- Flow rate : up to 88 GPM
- Max. Head : 130ft
- Built-in Overload Protector with auto reset
- Stainless Steel Shaft
- Rotation : Clockwise when viewed form Motor end
- Max. Water Temperature : 140 °F
- Pipe Connections : 1½" x 1½" NPT
- NEMA Standard

Operating conditions

Max. Liquid Temperature : 140 °F
Max. Working Pressure: 125 psi
Max. Ambient Temperature : 104 °F

Special Features

- **Self-Priming Design:** Once for the first time the pump need to be filled with water and primed, it never needs priming again even if the water level drops below the suction end.
- **Serviceable :** Back pullout design allows disassembly of pump for service without disturbing the piping
- **Diffuser (Guide Vane):** Bolt down diffuser provides positive alignment with impeller. F.D.A. compliant, injection molded, food grade, glass filled thermoplastic for durability and abrasion resistance.
- **Impeller :** F.D.A. compliant, food grade, glass filled thermoplastic for durability and abrasion resistance.
- **Corrosion Resistant :** Polyurethane paint process on cast iron prevents corrosion inside & outside.
- **Casing :** Cast Iron Construction. Back pull-out design. Tapped openings provided for vacuum gauge and casing drain
- **Powered for Continuous Operation:** Pump ratings are within the range of working limits of motor. Can be operated continuously without damage.
- **Mechanical seal :** Carbon/ Ceramic faces, BUNA elastomers. Pump design prevents the seal from running dry.

Applications

- Lawn Sprinkling
- Irrigation
- water transfer
- Dewatering

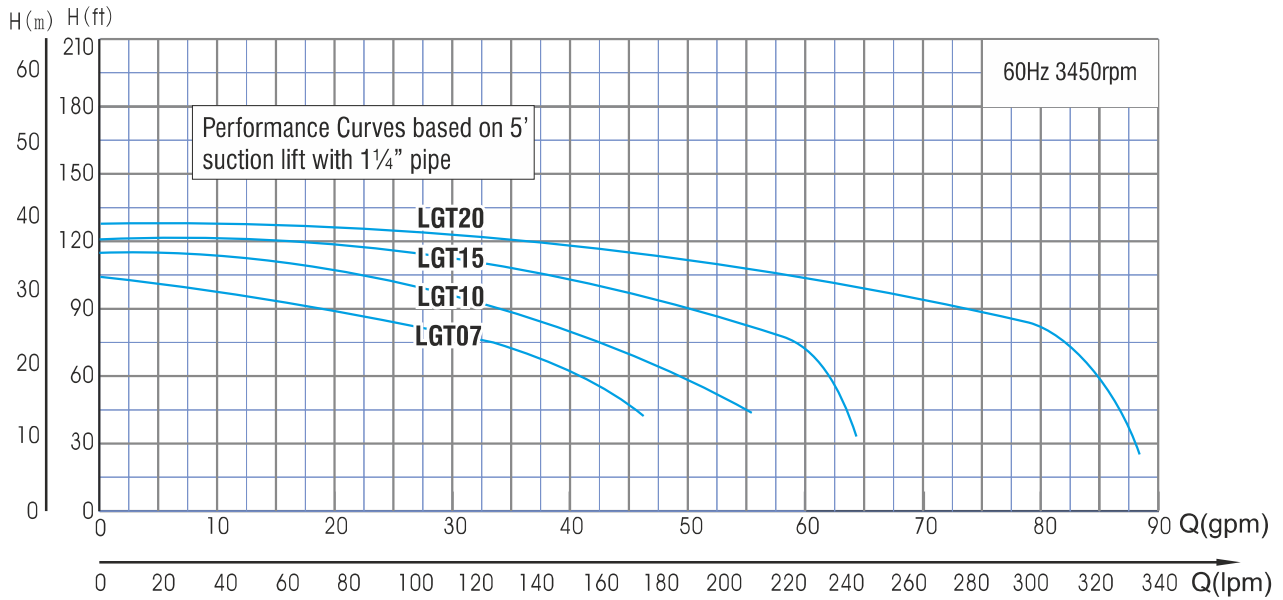
Performance Table

Model	Rated Power		n=3450rpm			Q	H												
			Q.max	H.max	Suc. Head		US.GPM	0	8	15.9	23.8	31.7	39.5	47.5	55.4	63.4	71.3	79.2	
	HP	kW	LPM	ft	ft		m ³ /h	0	1.8	3.6	5.4	7.2	9	10.8	12.5	14.4	16.2	18	
							LPM	0	30	60	90	120	150	180	210	240	270	300	
LGT07	0.75	0.55	170	103	26	H	ft	103	98	90	82	74	59						
LGT10	1.0	0.75	230	115	26	H	ft	115	113	108	100	92	78	62	41				
LGT15	1.5	1.1	250	119	26	H	ft	119	118	116	115	108	100	92	78	44			
LGT20	2.0	1.5	330	126	26	H	ft	126	124	122	121	118	116	111	106	98	90	82	

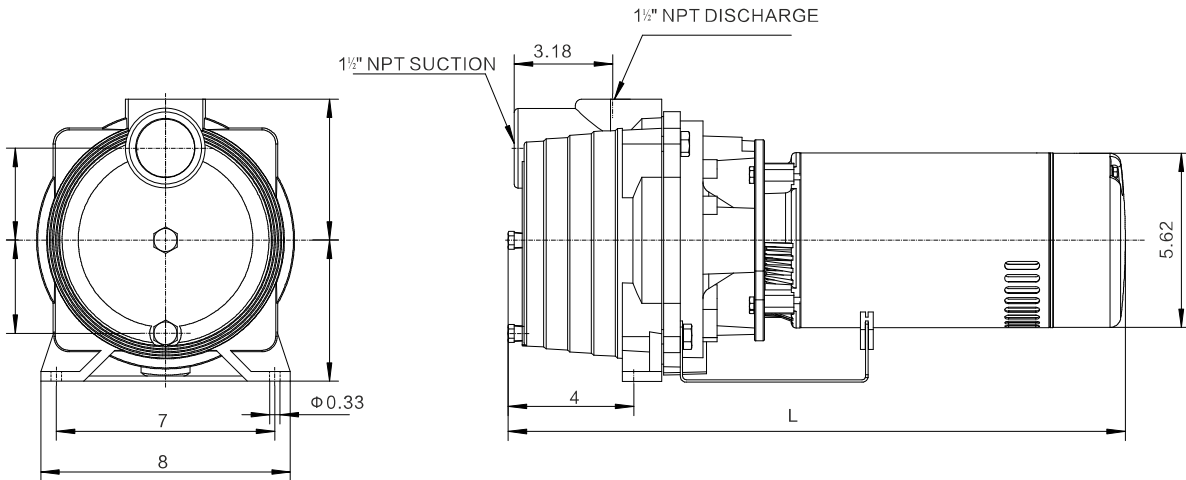


SUBMERSIBLES AND ELECTRIC INC.

PERFORMANCE CURVES



Dimensional Drawing



MODEL	LGT07	LGT10	LGT15	LGT20
L	19.69	19.69	20.5	20.5
Weight in lbs	48	52	60	65

Note: The above dimensions are in Inches.

Exploded Drawing and Spare Parts

1	Drain Plug	NPT1/4", zinc plated	8	Mechanical Seal	Graphite/Ceramic
2	Pump body	Cast iron	9	Pump Base	Mild steel
3	Separator plate seal ring	Rubber	10	Rubber pad	Rubber
4	Separator plate	NBR	11	Pump cover	Cast iron
5	Screw	M6 x 20, S.S	12	Hexagon bolt with full screws	1/2"-13 x 30, S.S
6	Diffuser	PPO	13	Hexagon bolt with full screws	3/8"- 16 x 25, S.S
7	Impeller	PPO+20%GF	14	Deflector	Heat-resistance rubber

