

Liberty Pumps®

FL50-Series

1/2 hp

**Submersible
Effluent
Pumps**

3/4" Solids Handling

**1-1/2" or 2"
Discharge**



Features:

- Semi-open impeller permits passage of solids without clogging
- Heavy cast iron construction
- Stainless steel fasteners
- 416 stainless steel rotor shaft
- Permanently lubricated upper and lower ball bearings
- Oil-filled hermetically sealed motor with thermal overload protection
- Unitized carbon and ceramic shaft seal
- Dual-sized discharge flange: 1-1/2" or 2"
- Quick-disconnect power cord in 10' standard length (25', 35' and 50' optional lengths available on some models)



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FL50-SERIES

TECHNICAL SPECIFICATIONS

EXTERNAL CONSTRUCTION:

Pump Volute and legs – Gray iron casting class 25

Motor Cover – Gray iron casting class 25. All castings shall be powder coated for corrosion resistance prior to assembly.

Fasteners – all fasteners shall be 300-series stainless steel.

MOTOR

Submersible 3450 RPM, oil filled and hermetically sealed. Class B insulation rating. 17-4 PH stainless steel rotor shaft. Thermally protected on single phase models. Three phase models shall have overloads incorporated into the control panel, properly sized for the horsepower and amperage of pump.

IMPELLER

Cast iron – class 25, semi-open design capable of passing a minimum 3/4" solids.

SHAFT SEAL

Carbon/ceramic unitized design with BUNA N elastomers and stainless steel housing.

POWER CORD

10' cord length – Standard. Quick-disconnect design allows for easy field replacement. Optional lengths available per chart.

LEVEL CONTROL

Automatic models shall be controlled by an adjustable wide-angle style switch sealed in a polymeric float. A series piggy-back style plug shall be provided to allow for manual bypass operation. Not available on 50' models and 3-Phase.

DISCHARGE

2" FNPT with a 1-1/2" FNPT threaded cast iron flange provided.

DIMENSIONAL DATA:

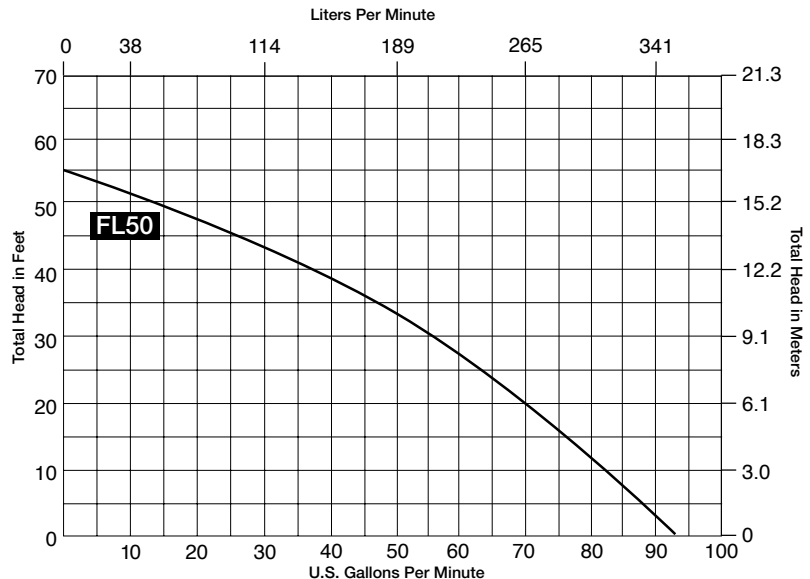
Height: 16.4" Width: 11.2"
(manual models)

Maximum Fluid Temperature:

100° F, 40° C Continuous Duty
140° F, 60° C Intermittent

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PERFORMANCE CURVE 60 Hz.



FL50-Series

Model	HP	Volts	Ph	Amps	Cord	Switch	Plug-End	Wgt
FL51A	1/2	115	1	12	10'	Automatic	Series Plug	62
FL51A-2	1/2	115	1	12	25'	Automatic	Series Plug	64
FL51A-3	1/2	115	1	12	35'	Automatic	Series Plug	66
FL51M	1/2	115	1	12	10'	Manual	Plug	61
FL51M-2	1/2	115	1	12	25'	Manual	Plug	62
FL51M-3	1/2	115	1	12	35'	Manual	Plug	63
FL51M-5	1/2	115	1	12	50'	Manual	Bare Lead	65
FL52A	1/2	208-230	1	6.5	10'	Automatic	Series Plug	62
FL52A-2	1/2	208-230	1	6.5	25'	Automatic	Series Plug	64
FL52A-3	1/2	208-230	1	6.5	35'	Automatic	Series Plug	66
FL52M	1/2	208-230	1	6.5	10'	Manual	Plug	61
FL52M-2	1/2	208-230	1	6.5	25'	Manual	Plug	62
FL52M-3	1/2	208-230	1	6.5	35'	Manual	Plug	63
FL52M-5	1/2	208-230	1	6.5	50'	Manual	Bare Lead	65



Specifications are subject to change without notice.