

FL100-SERIES

Submersible Effluent Pump

Liberty Pumps®

A Family and Employee Owned Company

1 hp

1-1/2" or 2" Discharge

Flange mounted

Features

- 3/4" Solids handling
- Heavy cast iron construction
- Semi-open cast iron impeller
- Stainless steel rotor shaft
- Dual shaft seals
- Single float, mercury-free level control
- Additional mounting clamp provided for optional switch mounting to pipe
- Fully adjustable pumping range
- 2" FNPT threaded discharge with 1-1/2" FNPT flange provided
- Quick-connect power cord - 25' length standard
- Available in automatic and manual models



Dual Sized Discharge
1-1/2" or 2"



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FL100-Series

External Construction

Pump Volute – Gray iron casting class 25
 Pump Legs – Gray iron casting class 25
 Powder coated casting

Motor

Oil-filled and hermetically sealed
 Class B insulation rating
 Stainless steel rotor shaft
 Single-phase models are thermally protected
 3-Phase models require overloads in control panel

Impeller

Semi-open design. Cast iron construction

Dual Shaft Seals

Upper unitized carbon ceramic and lower Viton® double lip

Fasteners

300 series stainless steel

Power Cord

25' length standard. Quick-connect design allows easy field replacement. (35' available on single-phase; 35' and 50' available on 3-phase)

Level Control

Wide-angle mechanical float sealed in a PVC housing. Float has a series plug for manual by-pass operation
 Water-stop seal in cord entry to eliminate water wicking into the pump
 Adjustable clamp provided for optional pipe mounting of the float

Discharge

2" FNPT with 1-1/2" FNPT cast iron flange provided

Maximum Fluid Temperature

104°F, 40°C Continuous Duty
 140°F, 60°C Intermittent

MODELS	HP	VOLTS	PHASE	AMPS	DISCHARGE	AUTOMATIC	CORD LENGTH IN FEET	WEIGHT IN LBS
FL102M-2	1	208-230	1	12	1-1/2" & 2"	No	25	71
FL102A-2	1	208-230	1	12	1-1/2" & 2"	Yes	25	72
FL103M-2	1	208/230	3	9	1-1/2" & 2"	No	25	71
FL104M-2	1	440-480	3	4.5	1-1/2" & 2"	No	25	71
FL105M-2	1	575	3	3.3	1-1/2" & 2"	No	25	71

NOTE: 3-phase models require a control panel for automatic operation. See control panel literature for complete specifications on panels. 35' cord option available on single-phase models. 35' and 50' cord options available on 3-phase models. Add "-3" suffix or "-5" suffix to model number. Example: FL103M-3 for 35' cord, FL103M-5 for 50' cord.

Performance Curve

60 Hz 3450 RPM

