

# Liberty Pumps®

## FL30-Series

### Effluent Pumps

**1/3 hp  
3/4" Solids Handling**

*Specifically designed for STEP Systems, LPP Systems, Mound Systems, Liquid Waste Transfer and Commercial Sump Applications*

#### Features:

- Vortex impeller, made of high temperature engineering polymer, permits passage of solids without clogging
- Cast iron construction with all stainless and brass fasteners
- 416 stainless steel rotor shaft
- Oil-filled, thermally protected motor
- Permanently lubricated bearings
  - Unitized shaft seal
  - 1-1/2" FNPT discharge
- Quick-disconnect 10' standard power cord allows replacement of cord in seconds without breaking seals to motor. (25' length optional)



#### Models:

FL31M 115V, 12a, Manual  
FL31A 115V, 12a, Automatic  
FL32M 208-230V, 6.6a, Manual  
FL32A 208-230V, 6.6a, Automatic

Automatic model features a mercury-free wide angle float with series plug - allows for manual operation of pump separate from switch.

innovate. evolve.

# FL30-SERIES

## TECHNICAL SPECIFICATIONS

### PUMP

The pump(s) shall be model \_\_\_\_\_ as manufactured by Liberty Pumps, Bergen, NY, or equal.

The pump(s) shall have a capacity of \_\_\_\_ GPM at a total dynamic head of \_\_\_\_ feet. Motor size shall be 1/3 horsepower, single phase, 60 hz. and \_\_\_\_\_ volt operation (115V or 208-230V).

### MOTOR

The pump motor shall be of the submersible type, oil filled, hermetically sealed and shall be thermally protected. The overload element shall automatically reset when motor cools. Motor windings shall be of the class A insulation rating.

The rotor shaft shall be made of 416 stainless steel and shall be supported by upper and lower ball bearings.

### IMPELLER

The pump shall have a VORTEX style impeller made of high temperature engineering polymer, capable of passing a minimum 3/4" spherical solid.

### SEAL

The shaft seal shall be of the carbon/ceramic unitized design, with BUNA N elastomers and stainless housings.

### EXTERNAL CONSTRUCTION

The pump volute, legs and motor housing shall be gray iron castings, class 25 or better. All castings shall be epoxy powder coated before assembly. All fasteners shall be of 300-series stainless steel or brass.

### LEVEL CONTROL

The pump shall be controlled by an adjustable mercury-free switch sealed in PVC float, and shall have a series plug for manual bypass operation.

MODELS	HP	VOLTS	PHASE	AMPS	DISCHARGE	AUTOMATIC	IMPELLER
FL31M	1/3	115	1	12	1-1/2" FNPT	NO	VORTEX
FL31A	1/3	115	1	12	1-1/2" FNPT	YES	VORTEX
FL32M	1/3	208-230	1	6.6	1-1/2" FNPT	NO	VORTEX
FL32A	1/3	208-230	1	6.6	1-1/2" FNPT	YES	VORTEX

10' cord standard on above models. For 25' cord options, add a "-2" suffix to model number.  
Example: FL31A-2 for Model FL31A with 25' cord.

### DIMENSIONAL DATA:

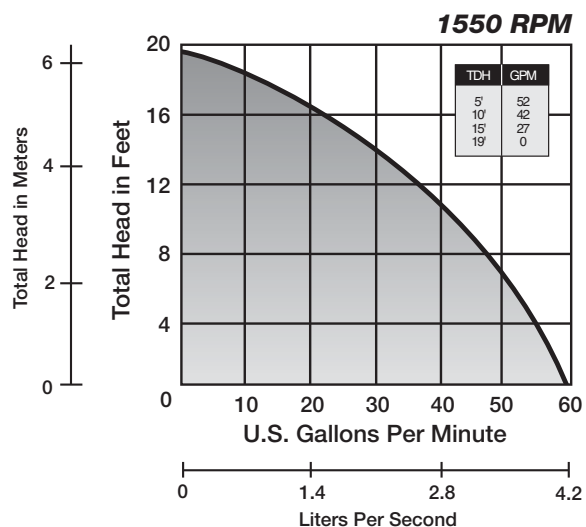
**Weight:** FL31M: 32 LBS.

**Height:** 9.6"

**Major Width:** 9.8" (manual model)

**Maximum fluid temperature** 140 degrees F.

### PERFORMANCE CURVE



Specifications are subject to change without notice.