

# Liberty Pumps®

## Mid-Range **FL50-Series**

1/2 hp

## High Head **FL60-Series**

6/10 hp

Effluent Pumps

1/2" Solids Handling

### Features:

- Semi-open impeller permits passage of solids without clogging
- Cast iron construction with all stainless and brass fasteners
- 416 stainless steel rotor shaft
- Oil-filled, hermetically sealed motors with thermal overload protection
- Permanently lubricated upper and lower ball bearings
- Unitized, carbon and ceramic shaft seal
- Single float, mercury-free level control with series plug for manual bypass operation – standard on automatic models
  - Adjustable pumping range
    - 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)



FL50-Series  
48' Max Head



FL60-Series  
63' Max Head

### Models:

FL51M	115V, 12a, Manual
FL51A	115V, 12a, Automatic
FL52M	208-230V, 7a, Manual
FL52A	208-230V, 7a, Automatic



FL61M	115V, 13a, Manual
FL61A	115V, 13a, Automatic
FL62M	208-230V, 7a, Manual
FL62A	208-230V, 7a, Automatic



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

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# FL50- & FL60-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 \_\_\_\_ horsepower, single phase, 60 hz. and \_\_\_\_ (115 or 208-230) volt operation.

### 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 B 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 semi-open impeller capable of passing a minimum 1/2" spherical solid and shall be constructed of class 25 or better cast iron.

### 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 a polymeric float, and shall have a series plug for manual bypass operation.

### DIMENSIONAL DATA:

**Weight:** FL50/60: 57 LBS.

**Height:** 13.75"

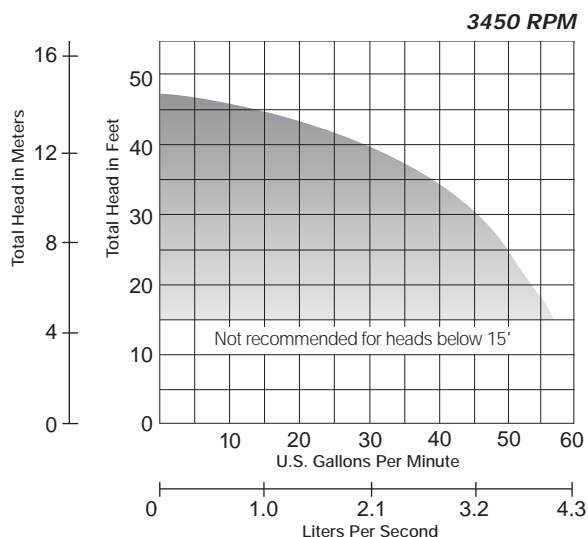
**Major Width:** 10.25"  
(manual models)

**Maximum Fluid Temperature:** 140° F.

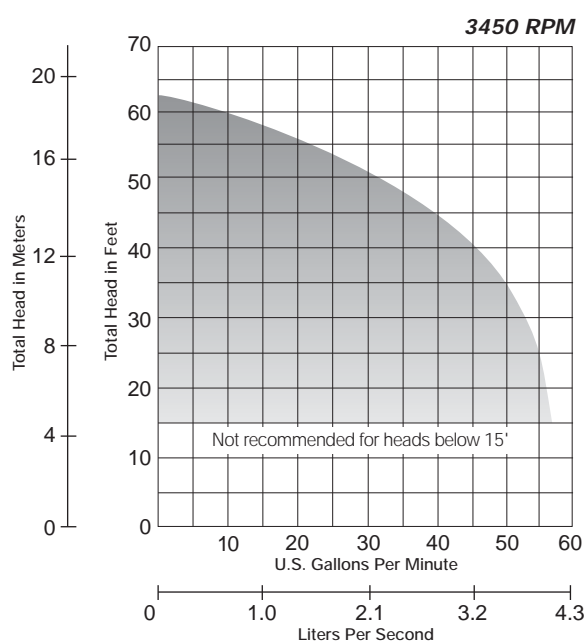
MODELS	HP	VOLTS	PHASE	AMPS	DISCHARGE	AUTOMATIC
FL51M	1/2	115	1	12	1-1/2" FNPT	NO
FL51A	1/2	115	1	12	1-1/2" FNPT	YES
FL52M	1/2	208-230	1	7	1-1/2" FNPT	NO
FL52A	1/2	208-230	1	7	1-1/2" FNPT	YES
FL61M	6/10	115	1	13	1-1/2" FNPT	NO
FL61A	6/10	115	1	13	1-1/2" FNPT	YES
FL62M	6/10	208-230	1	7	1-1/2" FNPT	NO
FL62A	6/10	208-230	1	7	1-1/2" FNPT	YES

10' cord standard on above models. For 25' cord options, add a "-2" suffix to model number. Example: FL61A-2 for Model FL61A with 25' cord.

### FL50 PERFORMANCE CURVE



### FL60 PERFORMANCE CURVE



Specifications subject to change without notice.