

# Liberty Pumps®

## LE100-Series



### Sewage Pumps

**1 hp**  
**2" Solids-Handling**  
**2" or 3" Flanged**  
**Discharge**

#### Features:

- Rugged 2 vane, semi-open cast iron impellers
- Cast iron housings and volute with all stainless and brass fasteners
  - 17-4 PH stainless shaft
  - Oil-filled, hermetically sealed motors
- Built-in thermal protection on single phase models
  - 2" or 3" flanged discharge
- Permanently lubricated upper and lower ball bearings
  - Unitized shaft seals
- Single float mechanical level control with series plug for manual bypass operation—standard on single-phase automatic models
  - Adjustable pumping range
- Quick-disconnect 10' standard power cord allows replacement of cord in seconds without breaking seals to motor (25' and 35' length optional)

#### Models:

##### SINGLE PHASE

**LE102M** 208-230V, 8a, manual  
**LE102A** 208-230V, 8a, automatic

##### 3-PHASE

**LE103M** 208-230V, 5.3a, manual\*  
**LE104M** 440-480V, 2.5a, manual\*  
**LE105M** 575V, 1.9a, manual\*

\*NOTE: 3-phase models require control panel for automatic operation. See sewage accessories literature for complete information on all Simplex and Duplex controls.

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# LE100-SERIES

## TECHNICAL SPECIFICATIONS

### PUMP

The pump(s) shall be model \_\_\_\_\_ as manufactured by Liberty Pumps, Bergen, N.Y. or equal. The pump(s) shall have a capacity of \_\_\_\_\_ GPM at a total dynamic head of \_\_\_\_\_ feet. Motor size shall be 1 horsepower, \_\_\_\_\_ phase, 60 hz. and \_\_\_\_\_ volt operation.

### MOTOR

The pump motor shall be of the submersible type, oil filled, and hermetically sealed. Single phase motors shall have thermal overload protection embedded in the windings, and shall automatically reset when motor cools. Three-phase motors shall have overloads incorporated into the control panel, properly sized for the horsepower and amperage of the pump(s).

The rotor shaft shall be made of 17-4 PH stainless steel and shall be supported by upper and lower ball bearings.

The power cord shall be of the quick-disconnect design.

### IMPELLER

The pump impeller shall be cast iron, 2 vane, semi-open, and shall be capable of passing a 2" 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 heavy gray iron castings, class 25 or better. All castings shall be powder coated before assembly. All fasteners shall be of 300-series stainless steel.

### LEVEL CONTROL

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

### ALL MODELS: 1 HP, 1725 RPM

	MODELS	VOLTS	PHASE	AMPS	DISCHARGE	AUTOMATIC
SINGLE PHASE	LE102M2	208-230	1	8	2" FLANGED	NO
	LE102A2	208-230	1	8	2" FLANGED	YES
	LE102M3	208-230	1	8	3" FLANGED	NO
	LE102A3	208-230	1	8	3" FLANGED	YES
3-PHASE	LE103M2-2	208-230	3	5.3	2" FLANGED	NO
	LE104M2-2	440-480	3	2.5	2" FLANGED	NO
	LE105M2-2	575	3	1.9	2" FLANGED	NO
	LE103M3-2	208-230	3	5.3	3" FLANGED	NO
	LE104M3-2	440-480	3	2.5	3" FLANGED	NO
	LE105M3-2	575	3	1.9	3" FLANGED	NO

10' cord standard on single phase models. For 25' cord option, add a "-2" suffix to model number. Example: LE102A2-2  
For 35' cord option add "-3" suffix to model number. Example: LE102A2-3.

NOTE: 25' cord is standard on 3-Phase models. 3-Phase models require panel for automatic operation.  
See sewage accessories literature for complete information on all simplex and duplex controls.

### DIMENSIONAL DATA:

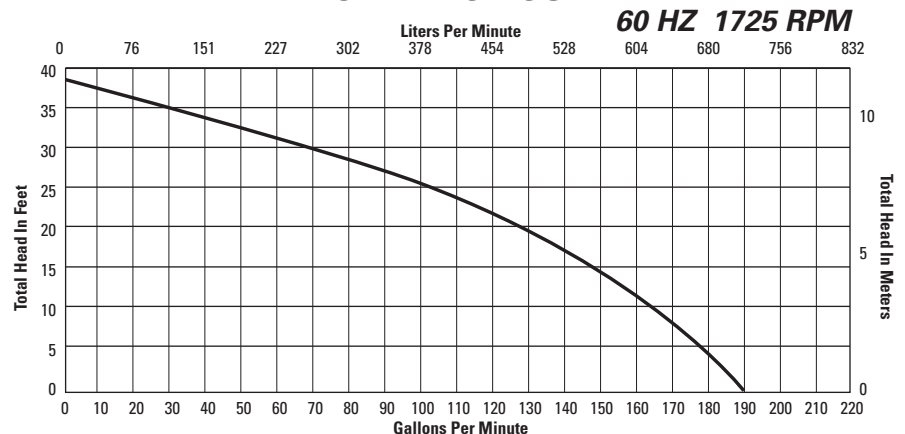
Weight: LE102M: 64 LBS.

Height: 18.9"

Major Width: 12.5"

Maximum fluid temperature:  
140 degrees F.

### PERFORMANCE CURVE



Specifications subject to change without notice.

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