

Liberty Pumps™



LE100-SERIES SEWAGE PUMPS

1 hp

2" Solids-Handling

2" or 3" Flanged Discharge

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.

FEATURES:

- Rugged 2 vane, semi-open cast iron impellers
- Cast iron housings and volute with all stainless and brass fasteners
- 416 stainless steel rotor 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
- 10' certified power cord with quick disconnect design (25' optional)

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 heat breakers incorporated into the control panel, properly sized for the horsepower and amperage of the pump(s).

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

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

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 all single phase models. 20' cord standard on 3-phase.
For 25' option on single phase pumps, add "-2" suffix to model number. EXAMPLE: LE102A2-2 (for 25' cord)
NOTE: 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: 14.1"

Major Width: 12.5"

Maximum fluid temperature: 140 degrees F.



Certified

Specifications subject to change without notice.

IMPELLER

The pump impeller shall be cast iron, 2 vane, semi-open, and shall be capable of passing a minimum 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 epoxy 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.

PERFORMANCE CURVE

