

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
 - Stainless steel 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-connect 10' standard power cord allows replacement of cord in seconds without breaking seals to motor (Optional longer cord lengths available)

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 stainless steel and shall be supported by upper and lower ball bearings. The power cord shall be of the quick-connect design.

IMPELLER

The pump impeller shall be cast iron, 2 vane, semi-open, and shall be capable of passing a 2" spherical solid.

SEAL

On single phase the shaft seal shall be of the carbon/ceramic unitized design, with BUNA N elastomers and stainless housings. The 3 phase shall be silicon carbide.

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. 50' cord option available on single phase models only. (Bare leads, no plug.)
Add "-5" suffix to model number. Example LE102M3-5.

DIMENSIONAL DATA:

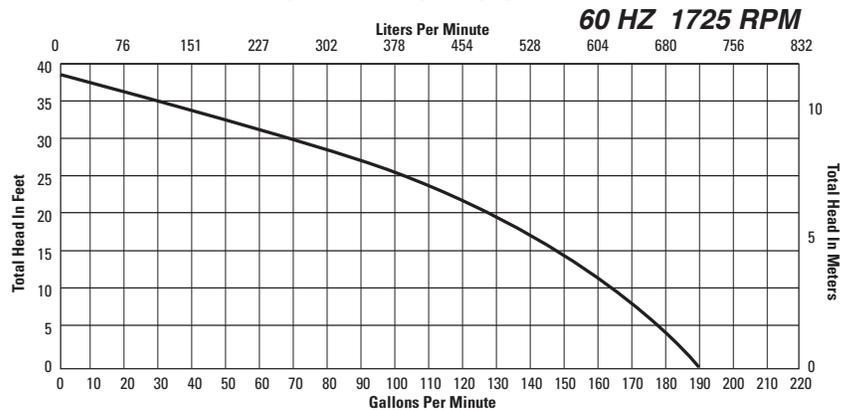
Weight: LE102M: 64 LBS.

Height: 18.9"

Major Width: 12.5"

Maximum fluid temperature:
140 degrees F.

PERFORMANCE CURVE



Specifications are subject to change without notice.

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