Liberty Pumps[®]

LEH100-Series

High Head Sewage Pumps

1 hp 2" Solids-Handling 2" or 3" Flanged Discharge 53' Maximum TDH

Features:

 Rugged 2 vane, semi-open cast iron impellers

 Cast iron housings and volute with all stainless steel and brass fasteners

• 17-4 PH 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-disconnect 10' standard power cord allows replacement of cord in seconds without breaking seals to motor (25' and 35' lengths optional)





Models:

SINGLE PHASE

| LEH102M | 230V, 12a, manual |
|---------|------------------------------|
| LEH102A | 230V, 12 a, automatic |

3-PHASE

| LEH103M | 208-230V, 9a, manual* |
|---------|-------------------------|
| LEH104M | 440-480V, 4.5a, manual* |
| LEH105M | 575V, 3.3a, 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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LEH100-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.

ALL MODELS: 1 HP, 3450 RPM

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 on single phase units shall be of the carbon/ceramic unitized design, with BUNA N elastomers and stainless housings. 3 phase units are 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.

| | MODELS | VOLTS | PHASE | AMPS | DISCHARGE | AUTOMATIC |
|--------------|------------|---------|-------|------|------------|-----------|
| SINGLE PHASE | LEH102M2 | 230 | 1 | 12 | 2" FLANGED | NO |
| | LEH102A2 | 230 | 1 | 12 | 2" FLANGED | YES |
| | LEH102M3 | 230 | 1 | 12 | 3" FLANGED | NO |
| | LEH102A3 | 230 | 1 | 12 | 3" FLANGED | YES |
| 3-PHASE | LEH103M2-2 | 208-230 | 3 | 9 | 2" FLANGED | NO |
| | LEH104M2-2 | 440-480 | 3 | 4.5 | 2" FLANGED | NO |
| | LEH103M3-2 | 208-230 | 3 | 9 | 3" FLANGED | NO |
| | LEH104M3-2 | 440-480 | 3 | 4.5 | 3" FLANGED | NO |
| | LEH105M2-2 | 575 | 3 | 3.3 | 2" FLANGED | NO |
| | LEH105M3-2 | 575 | 3 | 3.3 | 3" FLANGED | NO |

10' cord standard on single phase models. For 25' cord option, add a "-2" suffix to model number. Example: LEH102A2-2 For 35' cord add "-3" suffix to model number. Example: LEH102A2-3

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: LEH102M: 64 LBS.

Height: 18.9"

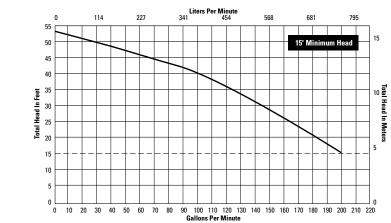
Major Width: 12.5"

Maximum fluid temperature: 140 degrees F.

NOTE: LEH-Series high-head pumps require a minimum application of 15' head.



PERFORMANCE CURVE 60 HZ



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