

# Liberty Pumps®

## LE50-Series

### Sewage Pumps

1/2 hp  
2" Solids-Handling

112 GPM at 10' TDH  
25' Maximum Head

#### Features:

- Heavy cast iron construction
- Oil filled, thermally protected motor
- Permanently lubricated bearings
  - 2-vane, corrosion resistant \*HYTREL® impeller
- All stainless steel fasteners and rotor shaft
- Quick-disconnect 10' standard power cord allows replacement of cord in seconds without breaking seals to motor. (25' length optional)

\*HYTREL® is a registered trademark of DuPont Polymers



#### Models:

**LE51M 115V, 12a, Manual**

**LE51A 115V, 12a, Automatic**

**LE52M 208-230V, 6.8a, Manual**

**LE52A 208-230V, 6.8a, Automatic**

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

innovate. evolve.

# LE50-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 1/2 horsepower, single phase, 60 hz. and \_\_\_\_ 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 lower and upper ball bearings.

The power cord shall be of the quick-disconnect design allowing replacement of the cord without breaking seals to the motor and/or oil chamber.

### IMPELLER

The pump shall have a 2-vane semi-open impeller 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 gray iron castings, class 25 or better. All fasteners shall be of 300-series stainless steel or brass. All castings shall be epoxy powder coated before assembly.

### LEVEL CONTROL

Automatic units shall be controlled by an adjustable, mercury-free, wide angle float switch. Float cord shall be equipped with a series plug for manual bypass operation.

MODELS	HP	VOLTS	PHASE	AMPS	DISCHARGE	AUTOMATIC	IMPELLER
LE51M	1/2	115	1	12	2" FNPT	NO	2-VANE SEMI-OPEN
LE51A	1/2	115	1	12	2" FNPT	YES	2-VANE SEMI-OPEN
LE52M	1/2	208-230	1	6.8	2" FNPT	NO	2-VANE SEMI-OPEN
LE52A	1/2	208-230	1	6.8	2" FNPT	YES	2-VANE SEMI OPEN

10' cord standard on above models. For 25' cord options, add a "-2" suffix to model number.  
Example: LE51A-2 for Model LE51A with 25' cord.

### DIMENSIONAL DATA:

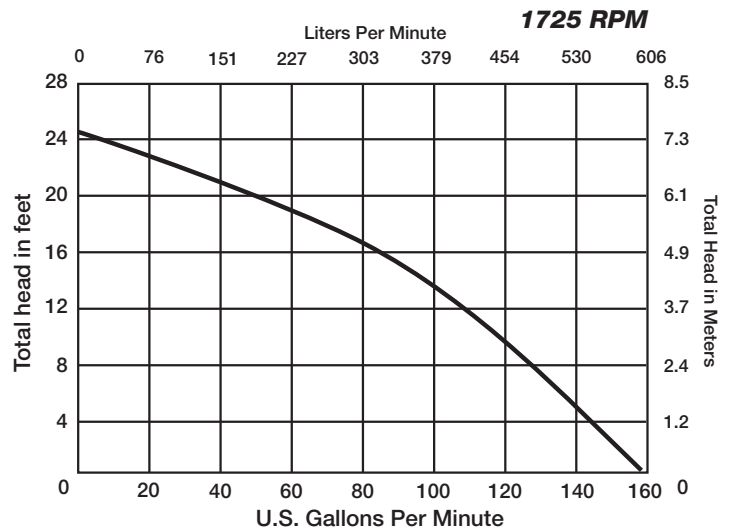
Weight: LE51M: 42 LBS.

Height: 14"

Major Width: 11.5" (manual models)

Maximum fluid temperature 140° F.

### PERFORMANCE CURVE 60 hz



Specifications subject to change without notice.

Liberty Pumps • 7000 Apple Tree Avenue • Bergen, New York 14416 • Phone 800-543-2550 Fax (585) 494-1839

[www.libertypumps.com](http://www.libertypumps.com)

Copyright © Liberty Pumps, Inc. 2013  
All rights reserved. LLIT 1500 R07/13