450-SERIES Submersible Sump Pumps

Liberty Pumps[®]

A Family and Employee Owned Company

1/2 hp 1-1/2" Discharge 3/8" Solids Handling

Features

- Vortex impeller permits passage of solids without clogging
- Polypropylene and powder coated aluminum construction
- Stainless-steel rotor shaft
- Non-corrosive stainless-steel fasteners
- Oil-filled, hermetically sealed motors with thermal overload protection
- Permanently lubricated upper and lower bearings
- Quick-connect 10' standard power cord allows replacement of cord in seconds without breaking seals to motor. (25' length optional)

Deep finned powder coated aluminum motor housing provides over 200% more cooling capacity than cast iron housings!



- 450 Manual
- **451** Mercury-free wide-angle float switch, integrally wired, with Quick-connect feature
- **453** Mercury-free wide-angle float switch, with series plug
- 457 VMF, Vertical Magnetic Float switch

Model 457 VMF





450-Series

Impeller

Vortex style high temp engineered thermoplastic

Finishing

Powder coat

Max Fluid Temperature

140°F (60°C) Intermittent 104°F (40°C) Continuous duty

Power Cord Type

SJTW Quick-connect 10' standard (25' length optional). For 25' optional cord length, add a "-2" suffix to model number. Example: 451-2 for Model 451 with 25' cord

Motor Housing

Aluminum

Shaft

Stainless

Hardware

Stainless

Mechanical Shaft Seal

Engineered double lip seal with stainless-steel springs

Bearings

Permanently lubricated upper and lower ball bearings

Motor Specifications

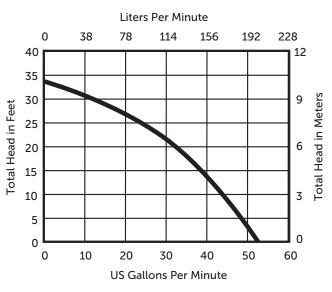
1/2hp 115V 7.5A Oil-filled; Thermally protected

Dimensional Data

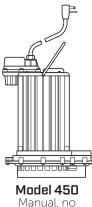
Weight: 12.5 lbs Height: 12.5" Major Width: 9.6" Minimum Sump Diameter: 14" (10" on Model 457)

Performance Curve

60 Hz. 3450 RPM



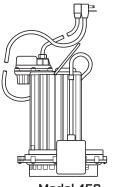
Sump Models



float switch

Effluent Models

Model 451 Quick-connect wide-angle float switch



Model 453 Wide-angle float switch with series (piggyback) plug allows for manual operation of pump

Model 457 VMF VMF, magnetically operated vertical float switch - operates in a 10" diameter sump

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Specifications subject to change without notice.

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