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)

Available switches:

- Manual (No switch)
- Heavy-duty Vertical Magnetic Float (VMF)
- Integral wide-angle float
- Wide-angle float with piggyback plug



Model 457 VMF

3 Year Warranty

SSPMA CERTIFIED

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450-Series

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

Bearings

Permanently lubricated upper and lower ball bearings

Impeller

Vortex style high temp engineered thermoplastic

Mechanical Shaft Seal

Engineered double lip seal with stainless-steel springs

Cord Lengths

MODEL	10'	25'[-2]	35'[-3]	50'[-5]
450	Standard	Optional	Optional	Optional
450HV	Standard	Optional	N/A	N/A
451	Standard	Optional	Optional	Optional
453	Standard	Optional	Optional	N/A
457	Standard	Optional	N/A	N/A

10' cord length standard on all models. For optional lengths, add "-2, -3 or -5" suffix to model number.
Example: for model 450 with 35' cord, order 450-3

Motor Specifications

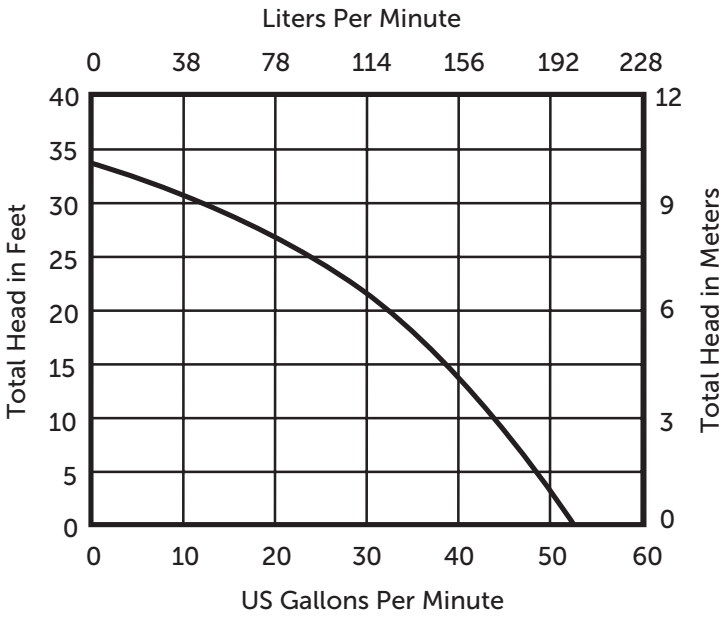
1/2hp 115V 7.3A • HV models: 1/2hp 230V 3.5A
Oil-filled; thermally protected

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



Models

MODELS	HP	VOLTS	PHASE	AMPS	AUTOMATIC	SWITCH TYPE	WEIGHT IN LBS
450	1/2	115	1	7.3	No	Manual	13
450HV	1/2	230	1	3.5	No	Manual	13
450-P	1/2	115	1	7.3	Yes	Vertical Piggyback (unmounted)	15
451	1/2	115	1	7.3	Yes	Integral Wide-Angle	14
453	1/2	115	1	7.3	Yes	Wide-Angle Piggyback	14
457	1/2	115	1	7.3	Yes	Vertical Magnetic Float	13

Consult engineering spec sheets for more data.

Specifications subject to change without notice.

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