230-SERIES
Submersible Sump Pumps

Liberty Pumps®
A Family and Employee Owned Company

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

Features

- Vortex style 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)



Model 237 VMF

Models

230 Manual

231 Mercury-free float switch, integrally wired, with Quick-connect feature

233 Mercury-free float switch, series plug

237 VMF, Vertical magnetic float switch

3 Year Warranty

Energy Saving! Model
Efficient motor design reduces electrical usage by up to **40%**

SSPMA CERTIFIED

C SP US

innovate. evolve.

230-Series

Features

- Lightweight, high performance submersible pump
- Vortex style impeller made of high temp engineered thermoplastic
- Power coated for corrosion resistance
- Anti-airlock hole allows trapped air to escape and the pump to prime and start pumping
- Removable base allows suction down to 1/8"

Dimensional Data

Weight: 11 lbs
Height: 10-1/2"
Major Width: 9-3/5"
Minimum Sump Diameter: 14" (10" on Model 237)

Motor Specifications

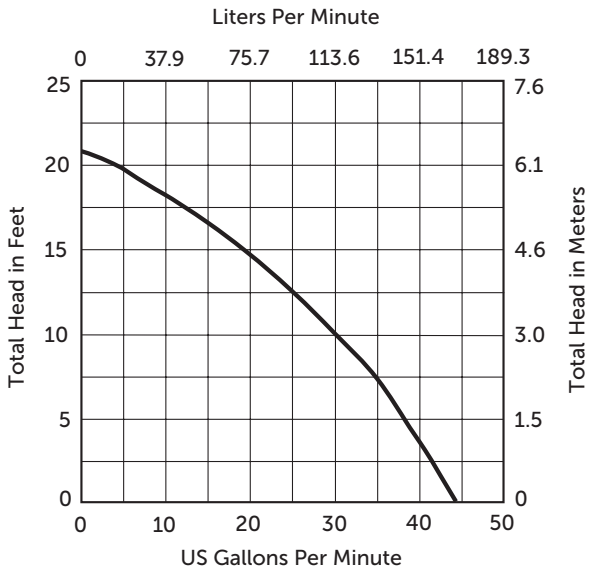
1/3 hp 115V 5.2A
Thermally Protected & Permanently Lubricated
Permanent Split Capacitor (PSC)

Max Fluid Temperature

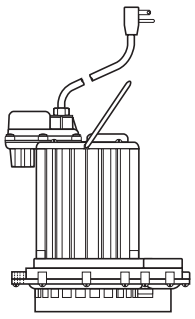
140°F (60°C) Intermittent
104°F (40°C) Continuous duty

Performance Curve

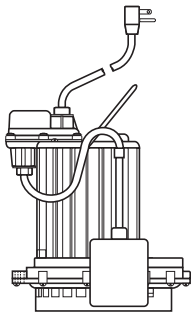
60 Hz, 3450 RPM



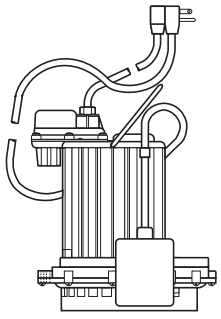
Effluent Models



Model 230
Manual, no float switch

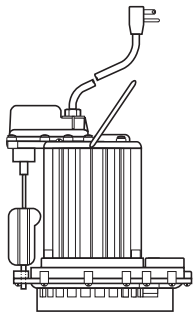


Model 231
Quick-connect wide-angle float switch



Model 233
Wide-angle float switch with series plug, allows for manual operation of pump

Sump Models



Model 237
VMF-Series
VMF switch, magnetically operated vertical float switch – operates in a 10" diameter sump

Specifications subject to change without notice.

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240-SERIES

Cast Iron Submersible Sump Pumps

Liberty Pumps®

A Family and Employee Owned Company

1/4 hp

1-1/2" Discharge

The most advanced
1/4 hp pump available!

Features

- Unique one-piece UNI-BODY casting
- Cast-iron housing
- Peripheral port inlets eliminate bottom suction
- 304 Stainless-steel intake plate
- Quick-connect 10' standard power cord allows replacement of cord in seconds without breaking seals to motor (25' length optional)
- Available in three switch styles including Liberty Pumps VMF switch

Models

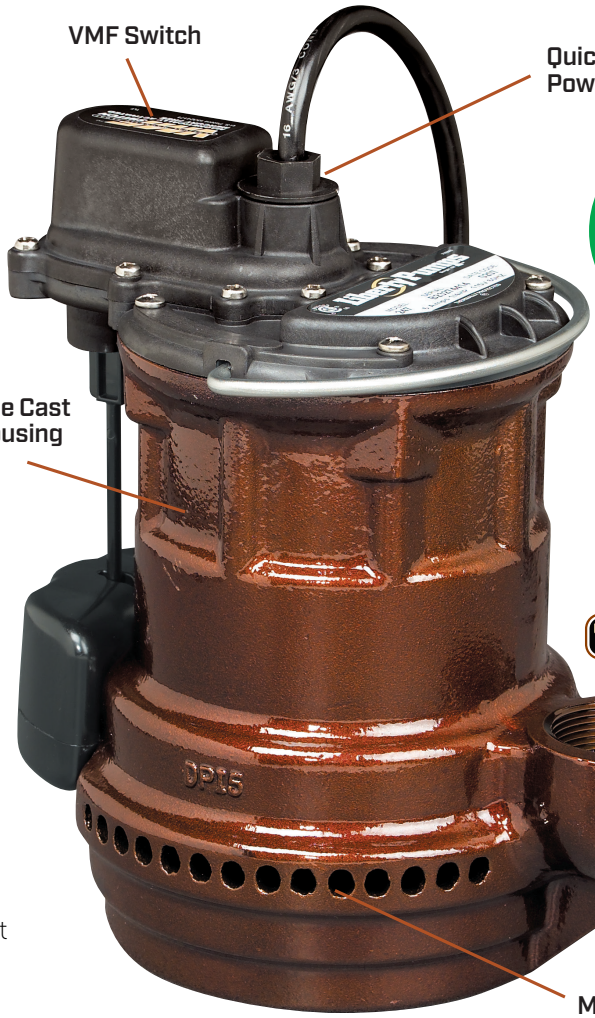
240 Manual

241 Wide-Angle Float Switch with Quick-connect

243 Wide-Angle Float Switch, Series Plug

247 VMF, Vertical Magnetic Float Switch

Wide-angle float switches are mercury-free, mechanically activated.



Model 247 VMF



Available with Wide-Angle Float Switch

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240-Series

All Models Features

- Rugged 1/4 hp motor, oil-filled with thermal overload protection
- 1/4" Solids handling
- 1-1/2" Discharge
- Hermetically sealed motor and switch cavities, permanently lubricated bearings
- Liberty Pumps UNI-BODY casting – a solid, one-piece housing that eliminates the lower motor seal ring found on other pumps
- Integral, mid-mounted "peripheral-port" inlets eliminate bottom suction of debris and foreign materials
- Stainless-steel volute intake plate, internally mounted. Will not corrode
- 8 Vane, glass-reinforced thermoplastic impeller non-clog design
- Quick-connect 10' standard power cord allows replacement of cord in seconds without breaking seals to motor (25' length optional)
- For 25' cord option, add a "-2" suffix to model number Example: 247-2 for Model 247 with 25' cord
- Non-corrosive stainless-steel fasteners
- Stainless-steel rotor shaft

Motor Specifications

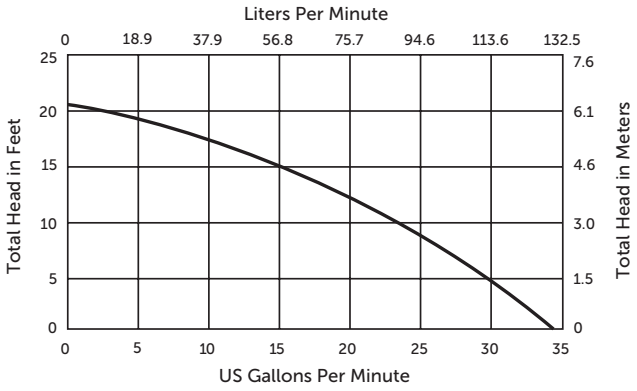
1/4 hp 115V 6A
Thermally protected and permanently lubricated

Dimensional Data

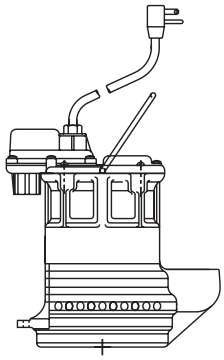
Weight: 21 lbs
Height: 10"
Major Width: 9" (manual model 240)
Maximum Fluid Temperature: 140°F (60°C) Intermittent
104°F (40°C) Continuous duty

Performance Curve

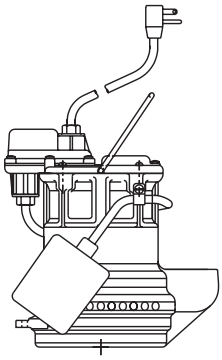
60 Hz, 3400 RPM



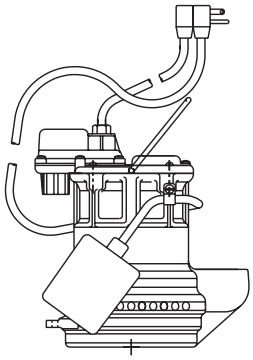
Effluent Models



Model 240
Manual,
no float switch

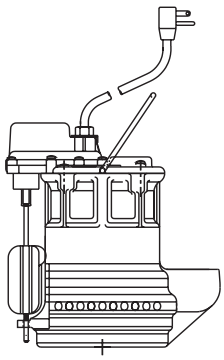


Model 241
Wide-angle float switch with Quick-connect



Model 243
Wide-angle float switch with series (piggyback) plug, allows manual operation of pump

Sump Models



Model 247
VMF-Series
VMF switch, magnetically operated vertical float switch – operates in a 10" diameter sump

Specifications subject to change without notice.

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250-SERIES

Submersible Sump/Effluent Pump

Liberty Pumps®

A Family and Employee Owned Company

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

Rugged and dependable heavy-duty cast iron pump with powder coat finish.



Features

- Unique one-piece cast body eliminates motor housing seal ring
- Durable epoxy powder coat finish
- Vortex style impeller
- Permanently sealed and lubricated bearings
- Quick-connect 10' standard power cord allows replacement of cord in seconds without breaking seals to motor (other lengths available)
- Heavy-duty Vertical Magnetic Float (VMF) on vertical float switch models

Models

250	Manual
251	Wide-Angle Float switch
253	Wide-Angle Float switch, Series Plug
257	VMF, Vertical Magnetic Float switch

Wide-angle float switches are mercury-free, mechanically activated.



Available with Wide-Angle Float Switch and Piggyback Plug

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250-Series

Impeller

Vortex style engineered polymer

Paint

Powder coat

Max Fluid Temperature

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

Power Cord Type

SJTW (10' and 25' models)
SJTOOW (35' and 50' models)

Motor Housing

Class 25 cast iron

Shaft

Stainless

Hardware

Stainless

Mechanical Shaft Seal

Engineered double lip seal

Bearings

Upper and lower ball bearings

Dimensional Data

Weight: 20 lbs (Model 257)
Height: 10-1/2"
Major Width: 9-3/5" (Model 250)

Motor Specifications

1/3 hp 115V 5.2A
Thermally protected and permanently lubricated
Permanent Split Capacitor (PSC)

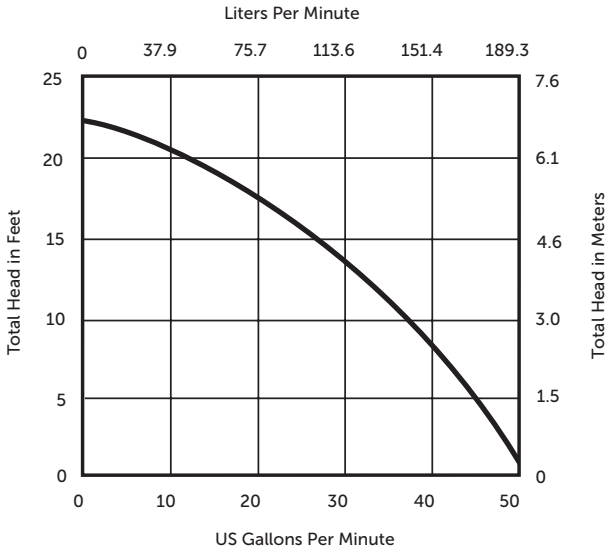
Cord Lengths

MODEL	10'	25'[-2]	35'[-3]	50'[-5]
250	Standard	Optional	Optional	Optional
251	Standard	Optional	Optional	Optional
253	Standard	Optional	Optional	N/A
257	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 250 with 35' cord, order 250-3

Performance Curve

60 Hz, 3450 RPM



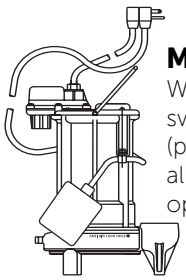
Effluent Models



Model 250
Manual, no float switch

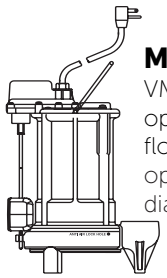


Model 251
Quick-connect wide-angle float switch, mercury-free



Model 253
Wide-angle float switch with series (piggyback) plug, allows manual operation of pump

Sump Models



Model 257
VMF, magnetically operated vertical float switch – operates in a 10" diameter sump

Specifications subject to change without notice.

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280-SERIES

Cast Iron Submersible Sump/Effluent Pump

Liberty Pumps®

A Family and Employee Owned Company

1/2 hp
1-1/2" Discharge
3/4" Solids Handling



Model 283

Features

- Liberty Pumps unique, one-piece "Uni-Body" casting
- Quick-connect 10' standard power cord allows replacement of cord in seconds without breaking seals to motor (other lengths available)
- Permanently lubricated upper and lower bearings
- Oil-filled, hermetically sealed motor with thermal overload protection
- Stainless-steel removable bottom screen
- Stainless-steel rotor shaft
- Stainless-steel fasteners

115V Models

280 Manual

281 Wide-Angle Float Switch with Quick-connect

283 Wide-Angle Float Switch, Series Plug

287 Vertical Magnetic Float (VMF) Switch for heavy-duty sump pump applications

208–230V Models

280HV Manual

281HV Wide-Angle Float Switch with Quick-connect

283HV Wide-Angle Float Switch, Series Plug

287HV Vertical Magnetic Float (VMF) Switch

Wide-angle float switches are mercury-free, mechanically activated.



Available with Vertical Magnetic Float Switch

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280-Series

Impeller

Vortex style engineered polymer

Paint

Powder coat

Max Fluid Temperature

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

Motor Specifications

1/2 hp 8A (115V) 4A (208/230V)
Oil-Filled; Thermally Protected
(PSC) Permanent Split Capacitor

Power Cord Type

SJTW (10' and 15' models)
SJTOOW (35' and 50' models)

Motor Housing

Class 25 cast iron

Dimensional Data

Weight: 29 lbs
Height: 13"
Major Width: 10" (Model 287)

Shaft

Stainless

Hardware

Stainless

Mechanical Shaft Seal

Unitized ceramic carbon

Bearings

Upper and lower ball bearings

Minimum Sump Diameters

Models 281, 283	14"
Model 287	10"

FACTORY SWITCH SETTINGS	MODELS 281 & 283	MODEL 287
Turn on level	13"	9.5"
Turn off level	7"	4"

The Model 283 features a fully adjustable wide-angle float switch. Differential adjustments can be made easily by tethering the float switch to the discharge pipe or other mounting point. Vertical float switch Model 287 is not adjustable.

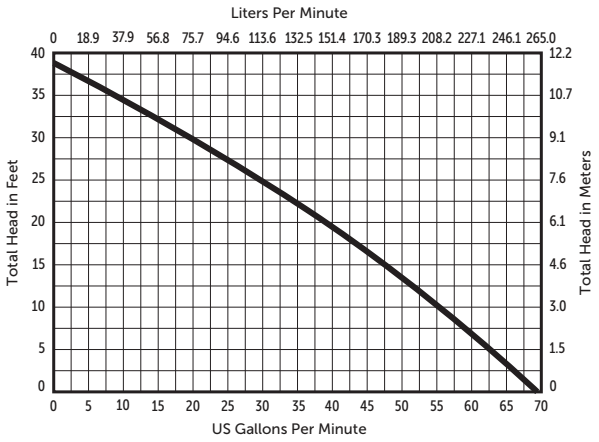
Cord Lengths

MODEL	10'	25'[-2]	35'[-3]	50'[-5]
280	Standard	Optional	Optional	Optional
281	Standard	Optional	Optional	Optional
283	Standard	Optional	Optional	N/A
287	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 280 with 35' cord, order 280-3

Performance Curve

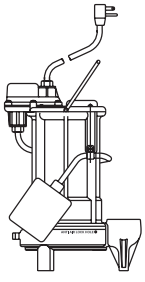
60 Hz, 3450 RPM



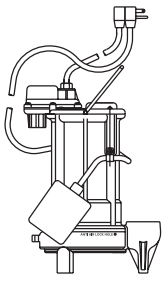
Effluent Models



Model 280
Manual, no float switch

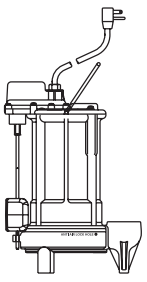


Model 281
Wide-angle float switch with Quick-connect



Model 283
Wide-angle float switch with series (piggyback) plug

Sump Models



Model 287 VMF-Series
Vertical magnetic float switch for smaller pits – will operate in a 10" diameter sump

Specifications subject to change without notice.

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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)



Model 457 VMF

Models

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

3 Year Warranty

SSPMA CERTIFIED

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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

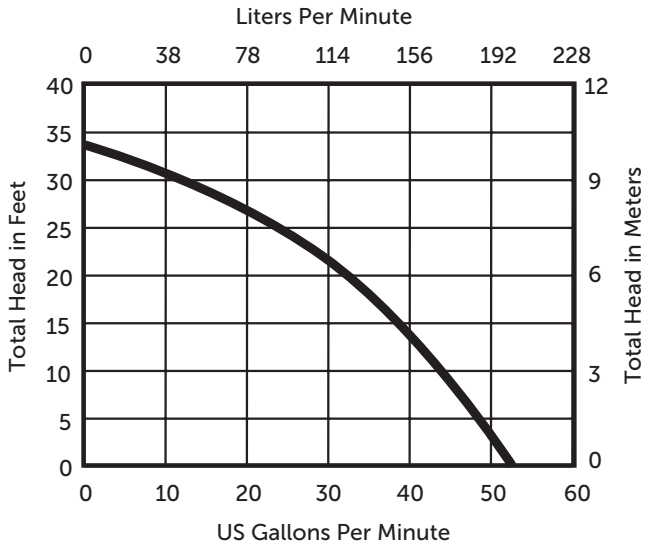
1/2hp 115V 7.5A
Oil-filled; Thermally protected

Dimensional Data

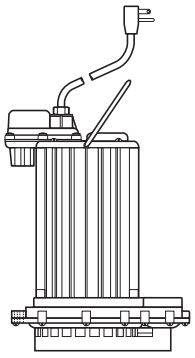
Weight: 12.5 lbs
Height: 12.5"
Major Width: 9.6"
Minimum Sump Diameter: 14" (10" on Model 457)

Performance Curve

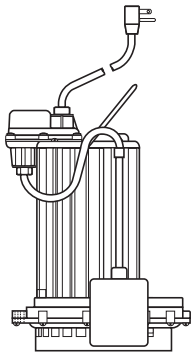
60 Hz, 3450 RPM



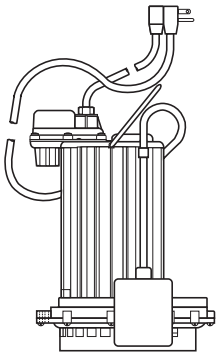
Effluent Models



Model 450
Manual, no float switch

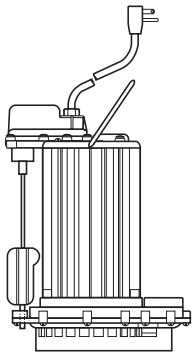


Model 451
Quick-connect wide-angle float switch



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

Sump Models



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

Specifications subject to change without notice.

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