

290-SERIES

Cast Iron Submersible Sump/Effluent Pumps

Liberty Pumps®

A Family and Employee Owned Company

3/4 hp

1-1/2" Discharge

3/4" Solids handling

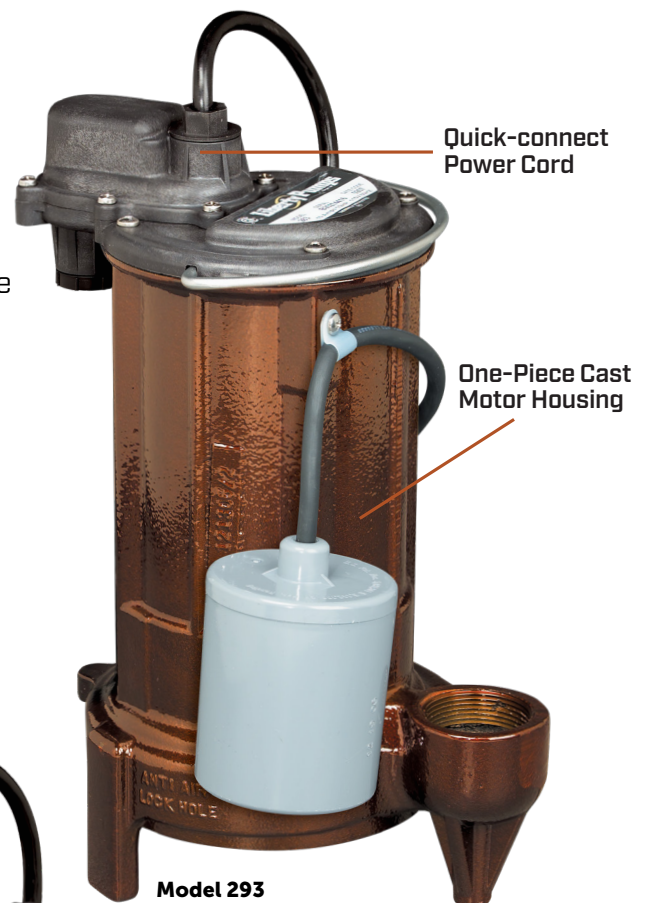
The Liberty Pumps 290-Series provides a cost effective "mid-range" pump for on-site waste water systems, liquid waste transfer and commercial heavy-duty sump pump applications that require higher head or more flow. Designed around Liberty Pumps unique "Uni-Body" casting, the 290-Series will provide years of reliable performance.

Features

- Unique, one-piece "uni-body" casting
- Quick-connect power cord allows replacement of cord in seconds without breaking motor seals
- Permanently lubricated upper and lower bearings
- Oil-filled, hermetically sealed motors with thermal overload protection
- Stainless steel, removable bottom screen
- Stainless steel rotor shaft
- Non-corrosive stainless-steel fasteners

Available switches:

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



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290-Series

Maximum 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

Mechanical Shaft Seal

Carbon ceramic

Bearings

Upper and lower ball bearings

Motor Specifications

Oil-filled, thermally protected

Dimensional Data

Height: 13"
Major Width: 10" (model 297)

Cord Lengths

MODEL	10'	25'[-2]	35'[-3]	50'[-5]
290	Standard	Optional	Optional	Optional
291	Standard	Optional	Optional	Optional
293	Standard	Optional	Optional	N/A
297	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 290 with 35' cord, order 290-3

Models

MODELS	HP	VOLTS	PHASE	AMPS	AUTOMATIC	SWITCH TYPE	WEIGHT IN LBS
290	3/4	115	1	10.4	No	Manual	30
290HV	3/4	230	1	5.3	No	Manual	30
291	3/4	115	1	10.4	Yes	Integral Wide-Angle	31
291HV	3/4	230	1	5.3	Yes	Integral Wide-Angle	31
293	3/4	115	1	10.4	Yes	Wide-Angle Piggyback	32
293HV	3/4	230	1	5.3	Yes	Wide-Angle Piggyback	32
297	3/4	115	1	10.4	Yes	Vertical Magnetic Float	31
297HV	3/4	230	1	5.3	Yes	Vertical Magnetic Float	31

Consult engineering spec sheets for more data.

Specifications subject to change without notice.

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Minimum Sump Diameters

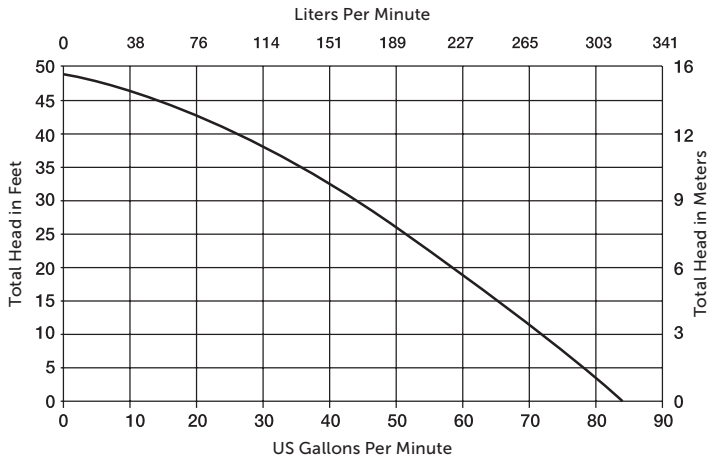
Model 291, 293 14"
Model 297 VMF 10"

Factory Switch Settings	Model 291 / 293	Model 297 VMF
Turn ON level	13"	9.5"
Turn OFF level	7"	4.0"

The Model 293 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 297 is not adjustable.

Performance Curve

60 Hz 3450 RPM



MODEL	10'	25'[-2]	35'[-3]	50'[-5]
290HV	Standard	Optional	Optional	Optional
291HV	Standard	Optional	Optional	Optional
293HV	Standard	Optional	Optional	N/A
297HV	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 290HV with 35' cord, order 290HV-3