

# 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**

## Features

Liberty's 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 motors with thermal overload protection

Stainless-steel, removable bottom screen

Stainless-steel rotor shaft

Non-corrosive stainless-steel fasteners

## 115V Models

**290** Manual

**291** Wide-Angle Float Switch, with Quick-connect

**293** Wide-Angle Float Switch, Series Plug

**297 VMF**, Vertical Magnetic Float (VMF) Switch for heavy-duty sump pump applications

## 208-230V Models

**290HV** Manual

**291HV** Wide-Angle Float Switch, with Quick-connect

**293HV** Wide-Angle Float Switch, Series Plug

**297HV** Vertical Magnetic Float (VMF) Switch

Wide-angle floats are mercury-free, mechanically activated.



Model 293



Available with  
Vertical Float Switch



innovate. evolve.

# 290-Series

The Liberty 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's unique "Uni-Body" casting, the 290-Series will provide years of reliable performance.

## Features

- Semi-open impeller permitting passage of solids up to 3/4"
- 416 Stainless-steel rotor shaft
- Permanently lubricated upper and lower ball bearing
- Epoxy powder coat finish
- Non-corrosive stainless-steel fasteners
- 1-1/2" Discharge
- Stainless-steel bottom screen – easily removable

## Maximum Fluid Temperature

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

## Motor Specifications

- 3/4 hp
- Oil-filled, thermally protected
- 115V Models 10.4A
- 208/230V Models 5.3A

## 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.

## 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

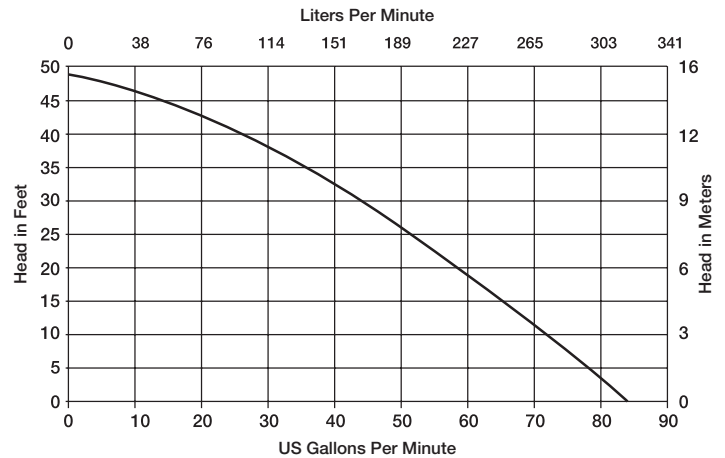
10' Cord length standard on all models. For optional lengths, add "-2, -3 or -5" suffix to model number.  
Example: For model 280 with 35' cord, order 280-3

## Dimensional Data

- Weight: 31 lbs
- Height: 13"
- Major Width: 10" (model 297)

## Performance Curve

60 Hz 3450 RPM

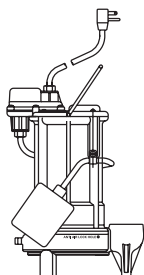


## Effluent Models

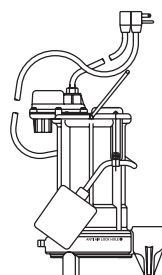
## Sump Models



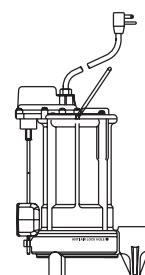
**Model 290**  
Manual,  
no switch



**Model 291**  
Wide-angle  
float switch  
with Quick-  
connect



**Model 293**  
Wide-angle  
float switch  
with series  
(piggyback)  
plug



**Model 297  
VMF-Series**  
Vertical magnetic  
float switch for  
smaller pits – will  
operate in a 10"  
diameter sump