

# 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**

### Features

- Liberty Pumps unique, one-piece "Uni-Body" casting
- Stainless steel hardware
- Stainless steel rotor shaft
- Permanently lubricated upper and lower bearings
- Oil-filled, hermetically sealed motor with thermal overload protection
- Stainless steel removable bottom screen
- Quick-connect power cord allows replacement of cord in seconds without breaking motor seal

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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# 280-Series

## 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

## Mechanical Shaft Seal

Carbon ceramic

## Bearings

Upper and lower ball bearings

## Motor Specifications

Oil-filled, thermally protected  
Permanent Split Capacitor (PSC)

## Dimensional Data

Height: 13"

Major Width: 10" (Model 287)

## 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

## Minimum Sump Diameters

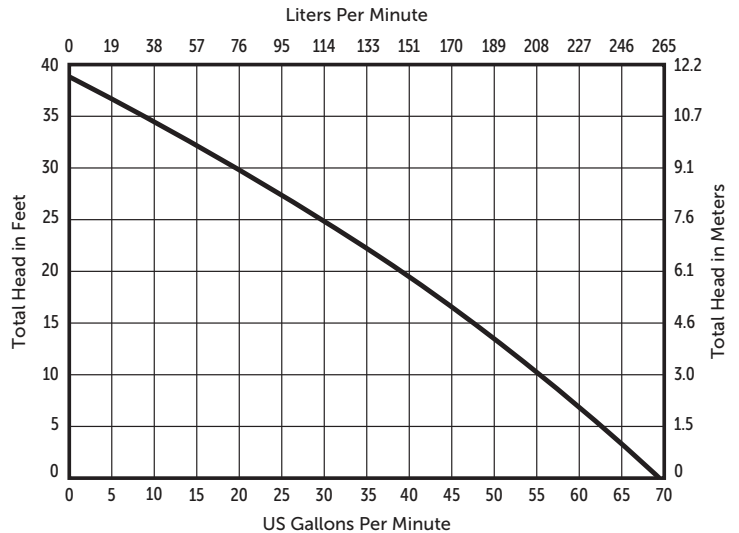
Models 281, 283 14"  
Model 287 10"

| 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.

## Performance Curve

60 Hz, 3450 RPM



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

## Models

| MODELS | HP  | VOLTS | PHASE | AMPS | AUTOMATIC | SWITCH TYPE             | WEIGHT IN LBS |
|--------|-----|-------|-------|------|-----------|-------------------------|---------------|
| 280    | 1/2 | 115   | 1     | 8    | No        | Manual                  | 29            |
| 280HV  | 1/2 | 230   | 1     | 4    | No        | Manual                  | 29            |
| 281    | 1/2 | 115   | 1     | 8    | Yes       | Integral Wide-Angle     | 29            |
| 281HV  | 1/2 | 230   | 1     | 4    | Yes       | Integral Wide-Angle     | 30            |
| 283    | 1/2 | 115   | 1     | 8    | Yes       | Wide-Angle Piggyback    | 30            |
| 283HV  | 1/2 | 230   | 1     | 4    | Yes       | Wide-Angle Piggyback    | 30            |
| 287    | 1/2 | 115   | 1     | 8    | Yes       | Vertical Magnetic Float | 29            |
| 287HV  | 1/2 | 230   | 1     | 4    | Yes       | Vertical Magnetic Float | 29            |

Consult engineering spec sheets for more data.

Specifications subject to change without notice.

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