280-Series

Cast Iron Submersible Effluent/Sump Pumps

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

Features:

• Liberty's unique, one-piece "Uni-Body" casting
• Quick-disconnect 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
• Stainless steel fasteners

115 V. Models:
280 Manual
281 Wide-Angle Float with Quick Disconnect
283 Wide-Angle Float, Series Plug
287 VMF, vertical magnetic float for heavy-duty sump pump applications

208-230 V. Models:
280HV Manual
281HV Wide-Angle Float with Quick Disconnect
283HV Wide-Angle Float, Series Plug
287HV Vertical Magnetic Float (VMF) Switch

Wide-Angle Floats are mercury-free, mechanically activated.
280-SERIES
1/2 hp Submersible Effluent/Sump Pumps

The Liberty 280-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 280-Series will provide years of reliable performance.

All Models Feature:
- Vortex style impeller permitting passage of solids up to ¾”
- 416 stainless steel rotor shaft
- Permanently lubricated upper and lower ball bearing
- Epoxy powder coat finish
- All fasteners – corrosion-resistant stainless steel
- 1 ½” Discharge
- Stainless steel bottom screen – easily removable
- Maximum fluid temperature: 140˚ F.

280-Series Cord Lengths

<table>
<thead>
<tr>
<th>Model</th>
<th>10'</th>
<th>25'(2)</th>
<th>35'(3)</th>
<th>50'(5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>280</td>
<td>Standard</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td>281</td>
<td>Standard</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td>283</td>
<td>Standard</td>
<td>Optional</td>
<td>Optional</td>
<td>N/A</td>
</tr>
<tr>
<td>287 VMF-Series</td>
<td>Standard</td>
<td>Optional</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

Motor Specifications

½ hp 60 Hz 3450 RPM
Oil filled, thermally protected
(PSC) Permanent Split Capacitor
8.0 amps (115V)
4.0 amps (208/230V)

Performance Curve: 280-Series

Dimensional Data:

Weight: 29 lbs.
Height: 13”
Major Width: 10” (model 287)

Minimum Sump Diameters:

Model 281, 283...14”
Model 287 VMF...10”

<table>
<thead>
<tr>
<th>Factory switch settings</th>
<th>Model 281, 283</th>
<th>Model 287 VMF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn on level</td>
<td>13”</td>
<td>9.5”</td>
</tr>
<tr>
<td>Turn off level</td>
<td>7”</td>
<td>4.0”</td>
</tr>
</tbody>
</table>

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