SUBMERSIBLE VORTEX PUMPS
Model Numbers: D150V, DT15V, DT22V, DT37V, DT55V & DT75V

PRODUCT DESCRIPTION
High flow vortex submersible sump pumps with a choice of single or three phase motors.

APPLICATIONS
- Grey water pumping
- Sump emptying
- Septic effluent disposal
- Water transfer
- Pumping of light slurries and factory waste

FEATURES & BENEFITS
- Corrosion resistant 304 stainless steel shaft, motor shell and fasteners
  - Long service life
  - Attractive, lasting appearance

- Open impeller, vortex, centrifugal design
  - Able to pump soft solids in suspension
  - Less susceptible to blockage
  - Capable of higher flows

- Double mechanical shaft seal in oil bath with hard faced silicon carbide / ceramic seal on pump side
  - Added motor protection
  - Long service life

- Sand slinger lip seal
  - Added protection
  - Long service life

- Automatic resetting thermal overload
  - Protected against overloading

- HO7RN-F oil resistant leads, 10 metres long with bared wire lead ends
  - Easy to connect to power supply terminations
  - Longer life in dirty water

- Mounting base fitted
  - For a firm and stable positioning during installation and operation

- Slide rail kits available
  - For easy removal and re-installation

OPERATING LIMITS
- Capacities to 2500 lpm
- Heads to 13.5 m
- Max. submergence 25 m
- Max. operating temperature 40°C
- Max. soft solids up to 80% of discharge size

Suitable Fluids
Clean or “grey water” of neutral pH containing up to 20% small soft solids or 1% fine solids. Some wear should be expected while pumping hard solids in suspension.

60Hz models available.
TECHNICAL SPECIFICATIONS

MATERIALS OF CONSTRUCTION

<table>
<thead>
<tr>
<th>PART</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impeller</td>
<td>Cast iron</td>
</tr>
<tr>
<td>Pump casing</td>
<td>Cast iron</td>
</tr>
<tr>
<td>Outlet</td>
<td>Cast iron</td>
</tr>
<tr>
<td>Shaft seal pump side</td>
<td>Silicon carbide/ceramic</td>
</tr>
<tr>
<td>Shaft seal motor side</td>
<td>Carbon/ceramic</td>
</tr>
<tr>
<td>Shaft seal elastomer</td>
<td>Mechanical seals in captive oil bath with oil seal</td>
</tr>
<tr>
<td>Pump shaft</td>
<td>Nitrile rubber</td>
</tr>
<tr>
<td>Orings</td>
<td>Nitrile rubber</td>
</tr>
<tr>
<td>Motor shell</td>
<td>304 stainless steel</td>
</tr>
<tr>
<td>Handle</td>
<td>304 stainless steel</td>
</tr>
<tr>
<td>Fasteners</td>
<td>304 stainless steel</td>
</tr>
<tr>
<td>Float &amp; power supply leads</td>
<td>HO7RN-F oil resistant</td>
</tr>
</tbody>
</table>

HYDRAULIC PERFORMANCE

<table>
<thead>
<tr>
<th>Model</th>
<th>Discharge bore</th>
<th>A</th>
<th>A1</th>
<th>B</th>
<th>D</th>
<th>H</th>
<th>Operating Net Water Level</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D150V</td>
<td>3&quot; (80)</td>
<td>305</td>
<td>205</td>
<td>230</td>
<td>195</td>
<td>600</td>
<td>545</td>
<td>200</td>
</tr>
<tr>
<td>DT15V</td>
<td>3&quot; (80)</td>
<td>305</td>
<td>205</td>
<td>230</td>
<td>195</td>
<td>515</td>
<td>460</td>
<td>200</td>
</tr>
<tr>
<td>DT22V</td>
<td>3&quot; (80)</td>
<td>430</td>
<td>240</td>
<td>265</td>
<td>255</td>
<td>590</td>
<td>510</td>
<td>240</td>
</tr>
<tr>
<td>DT37V</td>
<td>3&quot; (80)</td>
<td>430</td>
<td>240</td>
<td>265</td>
<td>255</td>
<td>670</td>
<td>585</td>
<td>240</td>
</tr>
<tr>
<td>DT55V</td>
<td>4&quot; (100)</td>
<td>660</td>
<td>425</td>
<td>360</td>
<td>315</td>
<td>765</td>
<td>700</td>
<td>310</td>
</tr>
<tr>
<td>DT75V</td>
<td>4&quot; (100)</td>
<td>660</td>
<td>425</td>
<td>360</td>
<td>315</td>
<td>825</td>
<td>760</td>
<td>310</td>
</tr>
</tbody>
</table>

Installations & Priming

Use a rope to position and retrieve the pump. Do not lower or retrieve the pump using the power lead as this may damage the cable entry seals, causing water leaks and unsafe operation.

Don't use this product for recirculating or filtering swimming pools, spas, etc. While these pumps are built to high safety standards, they are not approved for installations where people will be in the water while they are operating.

Don't pump abrasive materials. Sand and grit in the water being pumped will accelerate wear, causing shortened pump life.

Keep your pump clean, particularly in situations where lint, hair or fibrous materials may get bound around the pump shaft. Regular inspection and cleaning will extend pump life.

Make room for the float switch to operate. Automatic models have a float switch to turn them on when the water level rises and turn them off again when it has been pumped down to the safe operating level of the pump. If the float switch is not free to rise and fall, correct pump operation may not be possible.

Don't run your pump dry. Non-automatic models must be switched off manually or by way of an external float/level switch when the water level is reduced to the top of the pump housing.