Redi-Flo3 pumps incorporate a totally new motor design. With the use of permanent-magnet technology within the motor, Redi-Flo3 pumps deliver unmatched performance. The combination of permanent-magnet motors and Grundfos’ own micro frequency converter, we are now able to communicate with the pump in ways never before possible. Just a few of the features that come out of this combination are constant level control, soft-start and integrated dry-run protection. These are just a few of the many features that Redi-Flo3 pumps can offer.

FEATURES

- Dry-Run Protection
- High Efficiency Pump End and Motor
- High Starting Torque
- Protection Against Up-Thrust
- Soft-Start
- Over- and Under-Voltage Protection
- Overload Protection
- Over-Temperature Protection
- Variable Speed
- Electronic Control and Communication

APPLICATIONS

Redi-Flo3 pumps are suitable for both continuous and intermittent operation for a variety of environmental applications including:

- Remediation
- Pollution Recovery
- Leachate Recovery
- Tank Applications
- Dewatering

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email: sales@geotechenv.com  • website: www.geotechenv.com
ACCESSORIES

The Redi-Flo3 “smart” motor enables continuous variable speed control. Geotech incorporates two variable speed options that include:

- **CU300 Status Box & Grundfos Go Remote** – a comprehensive platform for remote product control, product selection and product information. The app offers intuitive, handheld assistance and access to Grundfos online tools and it saves valuable time for reporting and data collection.

- **CU300 Status Box & Potentiometer** – a simplex rheostat speed controller packaged within a pelican case, providing quick set-up and flow control of any Grundfos Redi-Flo3 pump system.

Submersible pump motors are designed to be cooled from water flowing over and around the full length of the motor.

- **Geotech Redi-Flo3 Cooling Shroud** – ensure turbulent flow past the motor optimizing adequate cooling in open water or well-casings larger than 5”.

PERFORMANCE

![Graphs showing performance characteristics of Grundfos Redi-Flo3™ SQE-NE Environmental Pumps.](image-url)
**Electrical Submersible Pumps**

**Grundfos Redi-Flo3™ SQE-NE Environmental Pumps**

**SPECIFICATIONS**

**General:**
- **Well Diameter:** Minimum 3 in. (76 mm)
- **Installation Depth:** Maximum 500 ft. (150 m) below static water table
- **Variable Speed Control:** 30%-100% (3,000, 10,700 RPM)
- **Material:** Stainless steel complying with DIN W.-Nr 1.4401 (AISI 316), PVDF and FPM rubber

**Electric:**
- **Supply Voltage:** 1 x 200-240V +6% / -10%, 50 / 60 Hz PE
  1 x 100-115V
- **Operation via Generator:** The generator output must be equal to the motor P1 (KW) +10%
- **Starting Current:** The motor starting current is equal to the highest value stated on the motor nameplate
- **Starting Soft-start:**
- **Run-up Time:** 2 seconds maximum
- **Motor Protection:** The motor is protected against: dry-run, over-voltage, under-voltage, overload, over-temperature and upthrust
- **Power Factor:** PF = 1
- **Service Factor:**
  - 0.5-1.85 HP @ 115V / 230V
  - 0.75-2.05 HP @ 230V
  - 1.0-2.25 HP @ 230V
  - 1.5-1.65 HP @ 230V
- **Motor Cable:** 2 Wire with ground, Tefzel® Cable Kit (Santoprene® available)
- **pH Values:** 5-9
- **Liquid Temperature:** The temperature of the pumped liquid should not exceed 104°F

**Note:** If liquids with a viscosity or specific gravity higher than that of water are to be pumped, please contact Geotech Environmental Equipment, Inc.

**Minimum Ambient Temperature:** 4°F (-15°C)

**Maximum Ambient Temperature:** +104°F (40°C)

**Maximum Liquid Temperature:** 86°F (30°C)

**Dimensions and Weight:**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>HP</th>
<th>Discharge Size</th>
<th>A (inches)</th>
<th>B (inches)</th>
<th>C (inches)</th>
<th>D (inches)</th>
<th>E (inches)</th>
<th>Ship Weight (lbs.)</th>
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</thead>
<tbody>
<tr>
<td>10Redi-Flo3 SQE-100NE</td>
<td>½</td>
<td>1 ¼” NPT</td>
<td>30.4 (77.2)</td>
<td>19.8 (50.3)</td>
<td>10.6 (27)</td>
<td>2.6 (6.6)</td>
<td>2.9 (7.4)</td>
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<tr>
<td>10Redi-Flo3 SQE-140NE</td>
<td>½</td>
<td>1 ¼” NPT</td>
<td>30.4 (77.2)</td>
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<td>10.6 (27)</td>
<td>2.6 (6.6)</td>
<td>2.9 (7.4)</td>
<td>12 (5.4)</td>
</tr>
<tr>
<td>10Redi-Flo3 SQE-180NE</td>
<td>¾</td>
<td>1 ¼” NPT</td>
<td>31.5 (80)</td>
<td>19.8 (50.3)</td>
<td>11.6 (29.5)</td>
<td>2.6 (6.6)</td>
<td>2.9 (7.4)</td>
<td>13 (5.9)</td>
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<tr>
<td>10Redi-Flo3 SQE-220NE</td>
<td>¾</td>
<td>1 ¼” NPT</td>
<td>33.6 (77.7)</td>
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<td>13.7 (34.8)</td>
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<tr>
<td>10Redi-Flo3 SQE-260NE</td>
<td>1</td>
<td>1 ¼” NPT</td>
<td>35.0 (89)</td>
<td>21.3 (54.1)</td>
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<tr>
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<td>36.1 (91.7)</td>
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<td>38.2 (97)</td>
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<td>22Redi-Flo3 SQE-110NE</td>
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<td>16 (7.3)</td>
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<tr>
<td>22Redi-Flo3 SQE-210NE</td>
<td>1 ½</td>
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<td>2.6 (6.6)</td>
<td>2.9 (7.4)</td>
<td>16 (7.3)</td>
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</tbody>
</table>

**Note:** Weights include pump ends with motors.

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