REEL SYSTEM OVERVIEW
The ClydeUnion S&N Pumps E-Z Lift Neptune is a fully automated, safe, overboard deployed seawater lift system. Each system is specifically designed for harsh offshore conditions and features:

- Custom engineered roller deployment system that intuitively maintains the radius bend of the hose throughout deployment and retraction
- Dual heavy duty, non-collapsible 10 cm to 15 cm (4” to 6”) hose in 380 cm to 510 cm (150’ to 200’) lengths
- Each system is designed with a wire rope inside each hose, and will support the entire weight of the pumps, shroud and full water columns eliminating hose stretch and extending hose life
- The E-Z Lift Neptune can handle from 450 m³/hr (2,000 USgpm) to 1,136 m³/hr (5,000 USgpm) depending on hose size
- 2 year warranty on the motor, gearbox and control panel

TYPICAL APPLICATIONS
- Pre-fill/ballast
- Deluge/water curtain
- Cooling water
- Fire water

TYPICAL MARKETS
- Wind turbine installation vessel
- Production platform
- Jack-up rig
- Semi-submersible

TECHNICAL DATA
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<table>
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<tbody>
<tr>
<td><strong>Capacity:</strong></td>
<td>up to 5,000 USgpm / 1,135 m³/hr</td>
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<tr>
<td><strong>Delivery head:</strong></td>
<td>up to 20-30 ft / 6-9 m</td>
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<td><strong>Flange drilling:</strong></td>
<td>ANSI</td>
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<tr>
<td><strong>Hose rating:</strong></td>
<td>ABS - GL - DNV fire retardant</td>
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ClydeUnion Pumps
S+N
FEATURES + BENEFITS

1. **Perforated plastic shield**
   Adds to increased worker safety during retraction and deployment of the hose & pumps

2. **Reel system control panel**
   NEMA 4X enclosure with up/down toggle & emergency stop. 316 stainless steel hardware

3. **Gear drive & motor**
   14.9 kW (20 hp) motor that is rated for marine use. Electric fail safe brake

4. **381 cm to 508 cm (150’ to 200’) non-collapsible hose**
   Heavy duty non-collapsible 10 cm, 12.5 cm, 15 cm (4”, 5”, & 6”) hose ABS, DNV, GL fire rated

5. **Deployment rollers**
   Designed specifically to maintain the correct radius bend of the hose during all stages of deployment and retraction

6. **Swivel roller**
   Hinged & pin locked to the skid. Designed to open during servicing of the pump. Protects the hoses from getting outside of the skid during use

7. **Electric submersible pump**
   Pumps can be provided by ClydeUnion S&N Pumps or existing pumps can plug and play

POWER CABLE PROTECTION

- Each system is fitted with our custom engineered cable saddles
- The power cable runs through the saddles and rests between the hose
- Cable banding runs through the saddles and around the hoses and prevents unwanted sagging in the power cable and provides protection from external contact