Stancor, L.P.
Company Introduction
Stancor History

- Founded in 1985, when Swedish manufacturer Alimak Corp’s submersible pump business was purchased
- More than 30 years experience providing solutions with a complete line of pumps for demanding applications. Our comprehensive product portfolio also serves a variety of markets including: construction, industrial processing, utilities and waste water.
- Stancor is the market leader in coal mining with a broad line of MSHA-approved pumps made in the USA. A commitment to maximizing our customer’s profitability resulting in products that have been hardened for maximum performance.
- Stancor focuses on solutions. Oil Minder, combined with our portfolio of pumps, creates a system that manages both water and oil in confined spaces like elevator shafts.
- Purchased by Knox Capital in September 2014
Commitment To Customers

- **Reliable products.** Stancor products are designed to perform in difficult operating environments. Each pump and accompanying system is backed by a commitment to quality.

- **Customized solutions.** A full product portfolio, paired with a controls business, is guided by 35+ years of application knowledge to ensure customer expectations are exceeded.

- **Dedication to reduce total cost of ownership.** Ultimately, Stancor wants to be judged by success and profitability of our customers. We drive that effort through reliable products that decrease maintenance costs and downtime through unmatched customer service.

- **International experience. Local support.** Stancor is large enough to apply a world of knowledge. But small enough to do so with personalized service and support that ensures satisfaction every time a Stancor product is designed, implemented and serviced.
Stancor Product Portfolio

Avenger Series

- Full range of submersible pumps:
  - Cutter pumps (SC)
  - Grinder pumps (SG/UAK)
  - Low suction pumps (SB/SL)
  - Sewage pumps (LX)
  - Slurry pumps (SKR)
  - Stainless pumps (SS/SSD/SSS)
  - Vortex pumps (SE/SV/SC)
  - Wastewater pumps (AHS/SEW/SW)

P Series

- Product line designed for the rugged environmental challenges in coal mining – featuring enhanced components to extend service life and lower overall operating costs.
  - MSHA approval for explosion resistance.

Controls

- Oil Minder portfolio of solutions for elevator pits and transformers – packaging the right Stancor pump with a set of controls to manage effectively both water and oil levels.
  - G&G Controls, acquired by Stancor in 2016, provides customized controls for a variety of applications.
G&G Controls

- Long time Stancor supplier – building the expertise around proven products like Oil Minder
- Combines 35 years of experience with a commitment to individual needs – building energy-efficient systems that increase reliability
- Experience with commercial, industrial, municipal and residential applications
- Touchscreens, heavy duty floats, level transducers and/or probes can be added to standard control panels from ½ HP to 45 HP so previous developments can be leveraged into cost-effective solutions
- Developments benefit from an extensive knowledge of code and certification for both UL 508A and UL 698A
- Offering the best of both worlds – large enough to offer global experience and small enough to provide local service and support
Oil Minder
## Oil Minder Features, Advantages and Benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Advantage</th>
<th>Benefit</th>
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<tbody>
<tr>
<td>Modular product portfolio.</td>
<td>Can be customized for individual jurisdictions.</td>
<td>Compliance to ASME 17.1.</td>
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<tr>
<td>Patented conductive sensing.</td>
<td>100% effective sensing oil.</td>
<td>Prevents oil from entering sewers, rivers and/or waterways.</td>
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<td>Manages all liquids.</td>
<td>Elevators operational as liquids are removed. Detecting oil leaks is a vital part of maintenance program.</td>
<td>Water and oil are managed efficiently – protecting occupants, owners and the environment.</td>
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<td>Easy to install and incorporate into preventive maintenance.</td>
<td>Pre-assembled wiring and connectors assist installation.</td>
<td>Installation costs are minimized and reliability increases.</td>
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<tr>
<td>Trouble free operation.</td>
<td>Sensors are self cleaning.</td>
<td>Reduces need to enter confined space.</td>
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<td>Cost effective protection against liability.</td>
<td>Strong ROI. More affordable than oil/water separator.</td>
<td>Eliminates risk of fines, downtime and cleanup costs.</td>
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Oil Minder Product Attributes

- NEMA 4X weathertight corrosion resistant polycarbonate enclosures → longer durability and reliability.
- Stainless Steel sensor probe with patented electronic technology that repels dirt contamination.
- Single direct plug-in power source for operation of entire system → easier to install and safer to operate.
- Alarms, lights, silence switch, and remote monitoring circuit for oil, high liquid, and high amperage conditions providing a high level of automation.
- Solid state “push to test” switch conveniently performs all pump and control diagnostic tests.
- Complete factory assembly and testing ensures quality of entire pumps and control system.
- Oil Minder System can be combined with a variety of different pumps and valves.
- Available on 115/220 (1φ) or 230/460/575 volts (3φ).
- LED Indicator lights for oil spill, power, high liquid level, overload and pump run.
- UL 508 & 778 approved.
Oil Minder System – How It Works

1. Stancor Model SE-50 submersible effluent pump 0.5HP, 115 Volts, 3600 rpm, 2” discharge connection. Will operate upon Oil Minder panel sensing presence of oil through non-conductivity / conductivity probe. (connected through junction box 4). If leakage, Oil remains on top, water underneath; thus, pump takes away water until conductivity is reached stopping drainage pump.

2. Check Valve 2” avoids any return of pumped fluid

3. Stancor Oil Minder 115V, 1φ (Multi Option) control system with 8 pin male connector for Junction Box 4 conductivity probe and built-in audible and visual alarm when pump does not run due to oil in pit, high liquid or high amperage condition. (control system also available in Oil Minder Junior version)

4. Junction box provided with multi-pin connector and cord in lengths as required; 25 ft. is standard. Optional increments of 25ft available up to 250ft.

5. All buried pump pressure discharge piping shall be protected with tape coat CT corrosion protection

6. Power pump cable, probe cable, high liquid alarm cable, and pump “on” float cable (in 16ft lengths)

7. High liquid alarm float with clamp device to mount to pump discharge piping

8. Pump on / Oil alert float

9. Power Cord and molded ground plug (in 6ft lengths) for 115V
Oil Minder System – How It Works

1. **Pump On**
   - Pump goes ON with water in contact with sensor probe.

2. **Pump On**
   - Pump continues to pump down water.

3. **Pump On**
   - Pump off
   - Pump will continue to run, pumping water only until
     1) Water level drops below tip of sensor probe OR 2) only oil is in contact with sensor probe, eliminating electrical conductivity.

4. **Pump On**
   - Pump off
   - Pumps shuts off before oil is pumped, leaving approximately 3" of liquid in bottom sump.

5. **Float up**
   - Sump floods with oil sensor probe overrides pumps switch and pump remains off (Oil is contained).
   - If the water level in the elevator pit increase, the oil (which is lighter than water) WILL raise above the oil sensing probe and allow the pump to function in the normal manner until the water is pumped down and oil, once again, comes into contact with the probe.

Patented
Oil Minder Application “PITchers”