

Flygt Pumps Versus the Competition - Liquid Level in Sump

Product Features

- Closed loop cooling jacket allows exposed motor housing operation
- No oil requires less maintenance
- Single field replaceable cable
- High efficiency inverter duty rated motor
- Tungsten carbide plug in double mechanical seal
- High chrome wet end available for superior wear resistance
- Less starts, greater runtime and efficiency
- 5 year pro-rated warranty standard

Problem: Submersible sewage pumps are often neglected and routine maintenance recommendations are rarely followed. Once installed pumps are typically forgotten about until an alarm is received and pump failure occurs. One of the more common pump failures is over temperature or over heating of the pump motor. This can be caused by the pump off elevation being set to low or a controls malfunction causing the pump to operate below the minimum level required to keep the motor cool. Many competitors utilize the surrounding sewage for cooling of the motor. One competitor's O&M manual states "the minimum level shall be no more than 3-1/4" from the top of the motor housing down to the surface of the sewage." Unlike Flygt's oil less design, competitors in this case use high grade transformer oil which is not environmentally friendly and presents a disposal issue.

Solution: These problems are eliminated with Flygt submersible pumps. Flygt pumps above 10 HP do not require oil, they utilize a stainless steel cooling jacket, 70% water and 30% monopropylene glycol coolant and a heat exchanger system. This provides dissipation of motor heat regardless of the type of installation, (Wet pit or dry pit). The minimum water level can be set just above the pump volute and the motor can run exposed (dry) continuously. This cooling system provides a significant advantage over the competitor. For example, a 15HP Hydromatic S4PX requires a minimum water level of 33" from the floor. A 15HP Flygt 3153 only needs 11" of water from the floor. The Flygt pump provides additional storage volume and can run dry without issue in the event of a malfunctioning (stuck or defective float) controls system. This beneficial feature also reduces excavation cost of the wet well during installation and allows the entire operating range to be utilized decreasing starts and increasing run times and efficiency. The customer's Flygt pump will stay cool even under the toughest conditions.



Flygt Model 3153

Hydromatic S4PX

