

PUMPS & ALARMS



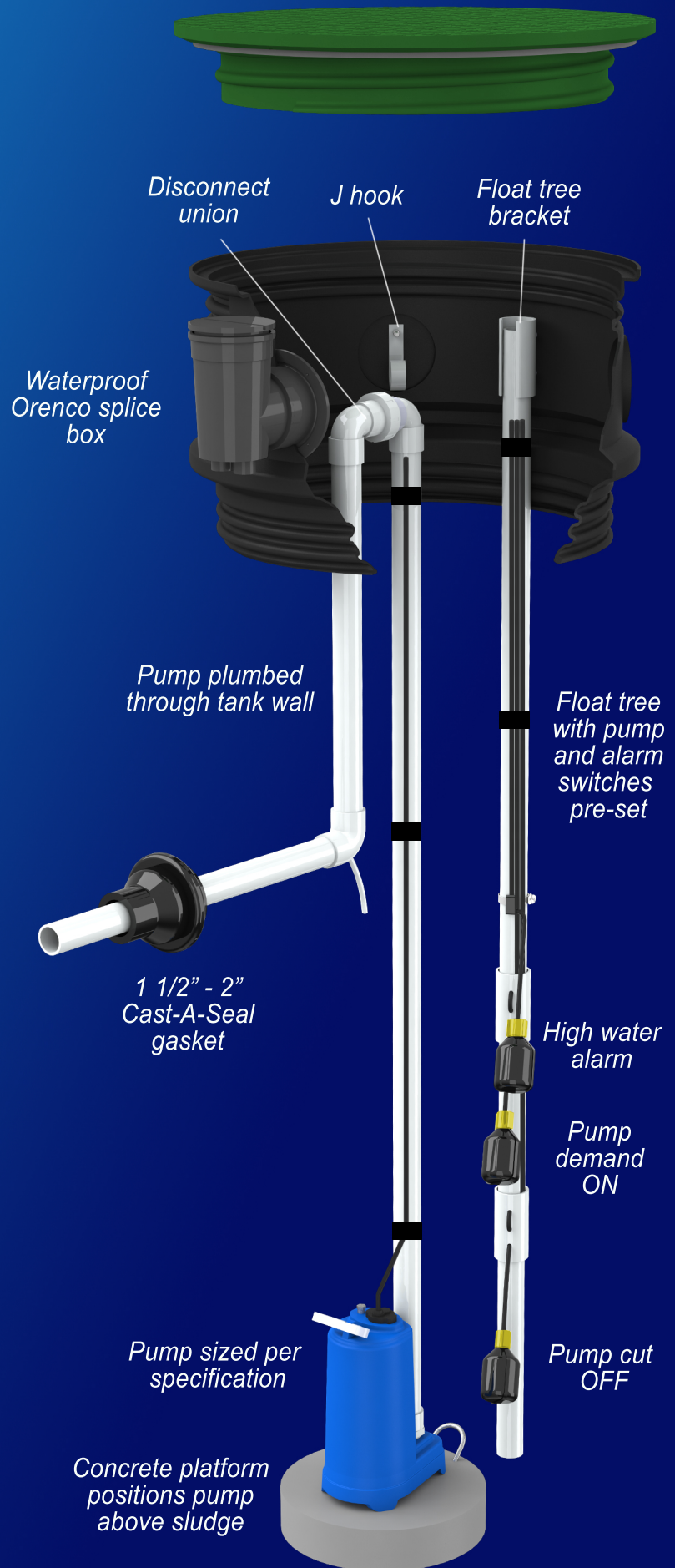
Alarm System Features Watertight Colorado SX Panel

- HOA switch
- Dual breakers
- Red alarm beacon
- Alarm horn
- Elapsed time meter
- Event counter
- Magnetic motor contacts

Our electric lift chambers and septic tanks are fully equipped and ready for final installation.

The so-called “**Full Monty**” contains an effluent pump plumbed through the tank wall, which has a disconnect union, float tree, a high water level alarm and a modified riser (12” riser, Orenco splice box, J hook and float tree bracket).

The control floats are configured so that a specific volume of wastewater is sent to the soil treatment area. When the wastewater in the pump tank reaches the float “ON”, the pump is activated and pumps the wastewater until it reaches the float “OFF”. If “ON” or the pump does not work, an alarm sounds once sewage reaches the alarm float. Once this alarm is triggered, there is some emergency storage space available in the tank before the system overflows or backs up into the house.



FULL MONTY®
WATERTIGHT

Submersible Effluent Pump

FLXX®

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Model PE31

APPLICATIONS

Specially designed for the following uses:

- Mound Systems.
- Effluent/Dosing Systems.
- Low Pressure Pipe Systems.

FEATURES

- Corrosion resistant construction.
- Cast iron body.
- Thermoplastic impeller and cover.
- Upper sleeve and lower heavy duty ball bearing construction.
- Motor is permanently lubricated for extended service life.
- Quick disconnect power cord, 20' standard length, heavy duty 16/3 SJTW with NEMA 5-15P. three prong, 115 volt grounding plug.
- Mechanical seal is carbon, ceramic, BUNA and stainless steel.

SPECIFICATION

Pump - General:

- Discharge: 1 1/2" NPT.
- Temperature: 104°F (40°C) maximum, continuous when fully submerged.
- Solids handling: 1/2" maximum sphere.

PE31 Pump:

- Maximum capacity: 53 GPM.
- Maximum head: 25' TDH.

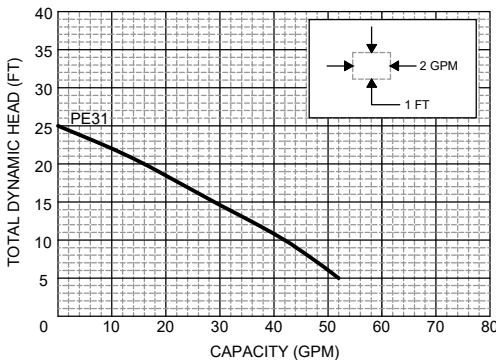
MOTOR

General:

- Single phase.
- 60 Hertz.
- 115 Volts.
- Built-in thermal overload. protection with automatic reset.
- High strength carbon steel shaft.

PE31 Motor:

- 0.33 HP, 3000 RPM.
- 12.0 Max. amps.
- Shaded pole design.



Model PE51

APPLICATIONS

Specially designed for the following uses:

- Mound Systems.
- Effluent/Dosing Systems.
- Low Pressure Pipe Systems.

FEATURES

- Corrosion resistant construction.
- Cast iron body.
- Thermoplastic impeller and cover.
- Upper sleeve and lower heavy duty ball bearing construction.
- Motor is permanently lubricated for extended service life.
- Quick disconnect power cord, 20' standard length, heavy duty 16/3 SJTW with NEMA 5-15P. three prong, 115 volt grounding plug.
- Mechanical seal is carbon, ceramic, BUNA and stainless steel.

SPECIFICATION

Pump - General:

- Discharge: 1 1/2" NPT.
- Temperature: 104°F (40°C) maximum, continuous when fully submerged.
- Solids handling: 1/2" maximum sphere.

PE51 Pump:

- Maximum capacity: 70 GPM.
- Maximum head: 37' TDH.

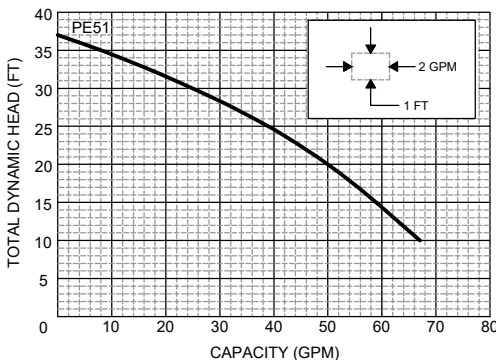
MOTOR

General:

- Single phase.
- 60 Hertz.
- 115 Volts.
- Built-in thermal overload. protection with automatic reset.
- High strength carbon steel shaft.

PE51 Motor:

- 0.50 HP, 3400 RPM.
- 9.5 Max. amps.
- PSC design



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Front Range Precast Concrete, Inc.

5901 Dexter Street, Unit 102, Commerce City, CO 80022

Phone (303) 442-3207 - (800) 783-3207 - Fax (303) 442-3209

Submersible Pump

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Sewage Model PS51

APPLICATIONS

- Specially designed for these uses:
- Residential Sewage System

FEATURES

- Corrosion resistant construction.
- Cast iron body.
- Thermoplastic impeller and cover.
- Upper sleeve and lower heavy duty ball bearing construction.
- Motor is permanently lubricated for extended service life.
- Quick disconnect power cord, 10' and 20' standard lengths, heavy duty 16/3 SJTW with NEMA 5-15P. three prong, 115 volt grounding plug.
- Mechanical seal is carbon, ceramic, BUNA and stainless steel.

SPECIFICATION

Pump - General:

- Discharge: 2" NPT.
- Temperature: 104°F (40°C) maximum, continuous when fully submerged.
- Solids handling: 2" maximum sphere.

PS51 Pump:

- Maximum capacity: 130 GPM.
- Maximum head: 27' TDH.

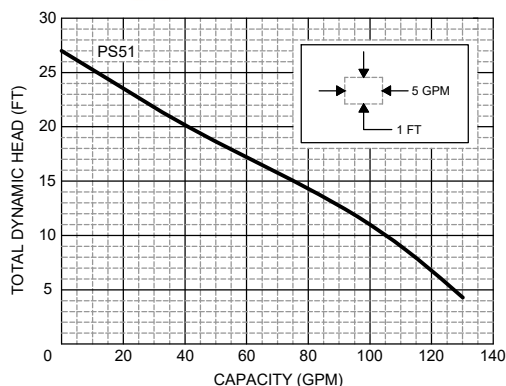
MOTOR

General:

- Single phase.
- 60 Hertz.
- 115 Volts.
- Built-in thermal overload. protection with automatic reset.
- High strength carbon steel shaft.

PS51 Motor:

- 0.50 HP, 3400 RPM.
- 13.0 Max. amps.
- PSC design.



Grinder Model RGS

APPLICATIONS

Designed for high head residential sewage applications where a gravity system is not practical. Ideal for pressure sewage systems.

FEATURES

- Design:** Capable of grinding domestic sewage in individual residential applications.
- Impeller:** Silicon bronze, semi-open, non-overloading two-vane design with pump-out vanes for mechanical seal protection. Balanced for smooth operation.
- Casing:** Cast iron, volute type for high efficiency. Adaptable for guide rail system.
- Motor:** Fully submerged in oil-filled chamber. High grade turbine oil surrounds motor for more efficient heat dissipation, permanent lubrication of bearings and mechanical seal, and protection against outside environment.

SPECIFICATION

Pump:

- Capacities: to 41 GPM.
- Total heads: to 95' TDH.
- Discharge: 1 1/2" NPT.
- Temperature: 104°F (40°C) maximum continuous, 140°F (60°C) maximum intermittent.

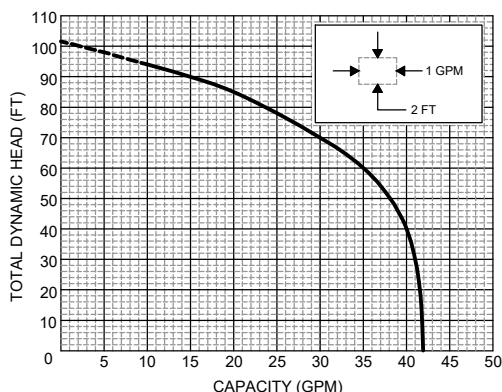
MOTOR

General:

- Single phase: 2 HP, 60 Hz, 3450 RPM, 208/230 V, capacitor start with on winding thermal protector. No external capacitor kits required.
- Class F insulation.
- Shaft: 300 series stainless steel threaded design.
- Bearings: ball bearings upper and lower.

Power Cord with bare lead ends:

- Use for connections in a control panel or junction box.
- Standard length 20', 14/3 STOW.



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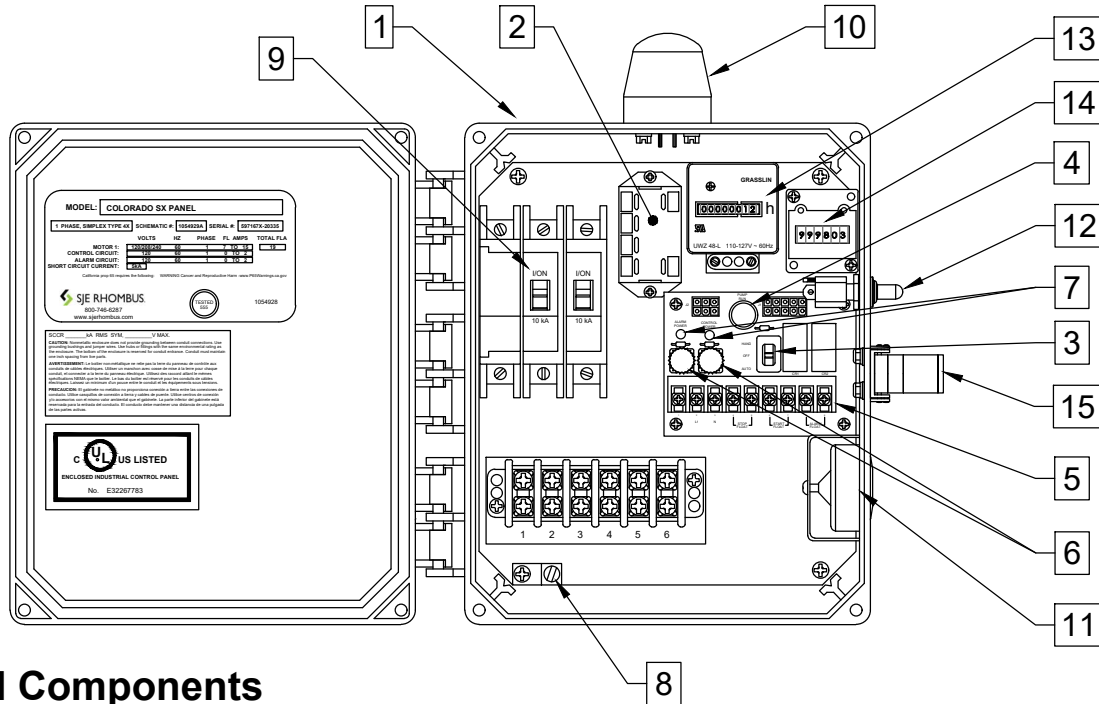
COLORADO SX PANEL

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Single phase, simplex motor contactor control

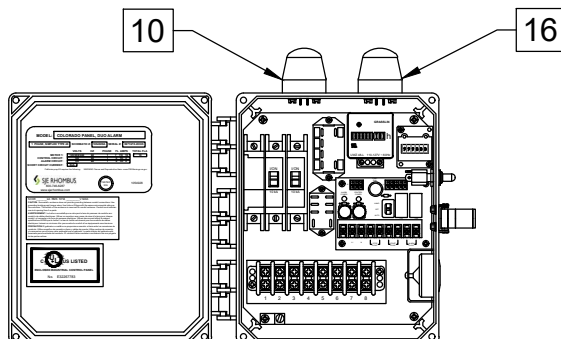
The Model **COLORADO SX PANEL** control panel provides a reliable means of controlling one 120, 208, or 240 VAC single phase pump in pump chambers, sump pump basins, irrigation systems and lift stations. Two control switches activate a magnetic motor contactor to turn the pump on and off. If an alarm condition occurs, an additional alarm switch activates the audio/visual alarm system.



Panel Components

1. **Enclosure** measures 10 x 8 x 4 inches
2. **Magnetic Motor Contactor** controls pump by switching electrical lines
3. **HOA (Hand/Off/Automatic) Switch** for manual pump control
4. **Green Pump Run Indicator Light**
5. **Float Switch Terminal Block**
6. **Alarm and Control Fuses**
7. **Alarm and Control Power Indicators**
8. **Ground Lug**
9. **Circuit Breaker** provides pump disconnect and branch circuit protection
10. **Red Alarm Beacon**
11. **Alarm Horn** - NEMA 1 style utilizes an internally mounted buzzer in lieu of horn
12. **Exterior Alarm Test/Normal/Silence Switch**
13. **Elapsed time meter**
14. **Event (cycle) counter**
15. **Lockable latch**

Dual Beacon Dosing Panel



The Dual Beacon Colorado Model control panel allows for monitoring of two alarm floats.

16. **Amber Alarm Beacon**

 **SJE RHOMBUS®**

Note: N.T.S.

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JB Series Indoor/Outdoor Alarm

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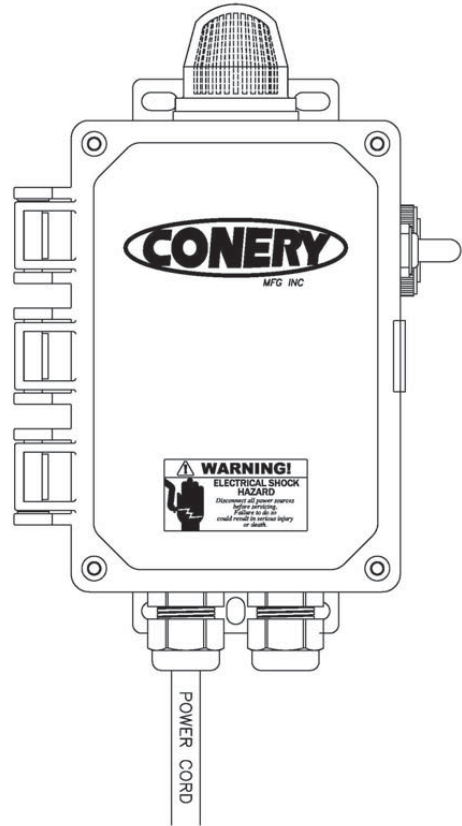
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High Water Alarms

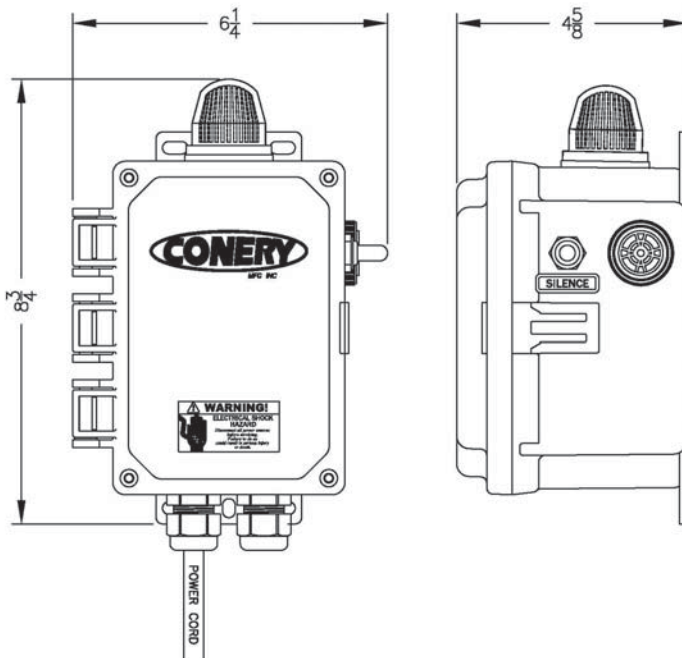
Designed to sound an audible alarm and illuminate a 360° red beacon light to notify an alarm situation. Equipped with silence button with automatic reset and individual test button. Includes 15' mechanical float.

Features & Benefits

- NEMA 4x Thermoplastic Enclosure
- Large Alarm Condition Indicating Light
- Audible Horn rated 85db @ 10'
- Alarm Test-Normal-Silence switch
- Automatic Alarm Reset
- Supplied w/Cord Grip for Float Switch Installation
- Includes 15' Mechanical Alarm Float & mounting tie strap
- 6' Power Cord with 115 volt plug
- Suitable for Indoor or Outdoor Use
- Two Year Limited Warranty
- Available in both High Water & Low Level Alarm versions



Dimensions



Note: N.T.S.

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