Wiring the Control Panel

1 Determine conduit entrance locations on control panel as shown. Check local codes and schematic on the inside cover of the panel for the number of power circuits required.
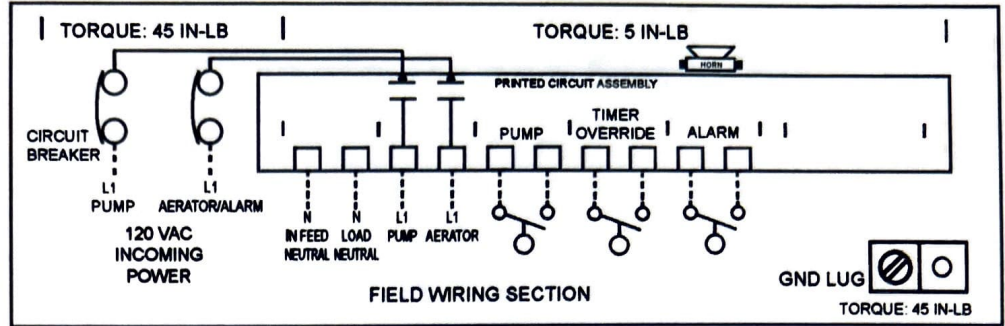
> **⚠ CAUTION!**
>
> Be sure the pump power voltage and phase are the same as the pump motor being installed.
> Use of separate pump and control/alarm power sources is recommended.

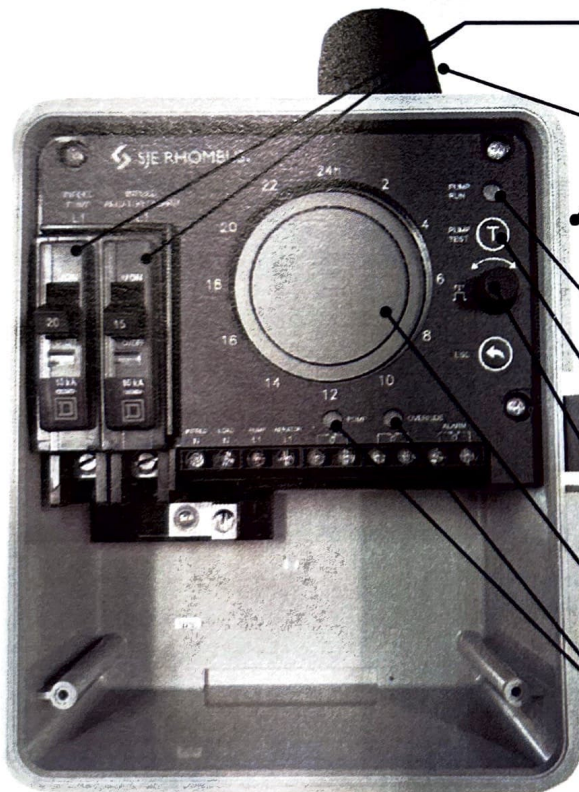**2** Connect the following wires to the proper terminal positions:
- incoming power for pump circuit
- incoming power for aerator/alarm circuit
- pump
- float switches
- aerator

3 Verify correct operation of control panel after installation is complete.

Operations

SJE Rhombus Digital Aerobic simplex control panel controls and monitors an aerator, pump, and high water level in aerobic wastewater treatment applications. The pump will run if the pump float is up (closed) and one of the 4 timers are set to allow the pump to run at that time. The aerator will run at all times and the display will show the amps in real time. If the amps fall below the AERO SET point, the alarm will be activated. If aerator is not used, AERO SET can be set at 0.0 amps to disable the alarm. Beacon indicates two different alarm conditions, solid alarm for high water and flashing alarm for aerator fail.

Circuit Breaker
Thermal-magnetic circuit breaker that provides pump disconnect and branch circuit protection.

Alarm System (Indicator Light and Horn)
When an alarm condition occurs, the red light and horn will be activated.

If the TEST/SILENCE button is pressed and released, the horn will be silenced. When the alarm condition is cleared, the alarm system is reset.

Pump Run Light
Activates when pump is running.

Pump Test
Activates pump while pressed.

Settings Dial
Used to set timers and aerator amps.

Digital Display
Shows timer notches, aerator amps, and pump run.

Float Status Indicators
Lights illuminate when floats are closed.

> **⚠ CAUTION!**
>
> You must use conduit sealant to prevent moisture or gases from entering the panel.
>
> Type 4X conduit must be used to maintain a Type 4X rating of the control panel.

Technical support, service questions:
+1-800-Rhombus (+1-800-746-6287)

Monday - Friday 7:00 AM to 6:00 PM Central Time