



## CYCLIX™ ANAEROBIC DIGESTER MIXING CONTROL SYSTEM

Striving to reduce carbon footprint and cost of water treatment, the Cyclix control system automates anaerobic mixing for operational efficiency.

The Cyclix™ system is a controls package that can be utilized with a JetMix™ hydraulic mixing system to optimize operational time and reduce energy costs.

The Cyclix system consists of a control panel with a programmable logic controller (PLC) and temperature sensors that monitor temperature within the reactor to dictate when the mixing system should be operated.

As sensors periodically sample digester temperature, the system runs only when required to ensure temperature stays within an optimal range. A threshold of +/- 1 degree Fahrenheit between temperature readings is set to control the system. When temperature readings fall within this range, the reactor is considered completely mixed and the mixing system ceases operation. The system will continue to cycle, periodically starting and sampling temperatures. Should temperature readings fall outside of the threshold, the system will continue to run until they are normalized.

### Cyclix Advantages

**Deliver only the required amount of mixing energy** - Mix only when needed to maintain optimal sludge temperature.

**Reduce operational costs** - Reduce energy consumption with less mixing and operational time.

**Ease of Installation** - Install in less time with fewer components.

**Flexible design** - Incorporate into a new system or integrate into an existing system.

**Reduce chance of digester foam** - Less mixing energy released into the system limits the chance of foaming.