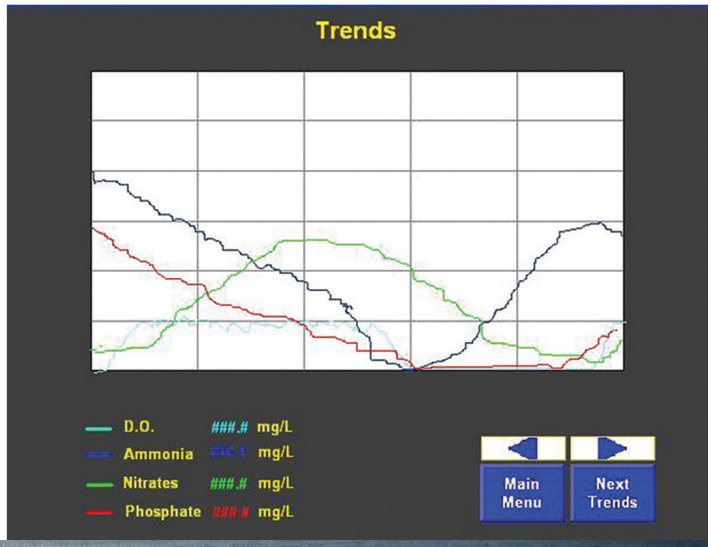
SCHREIBER

FlexControl

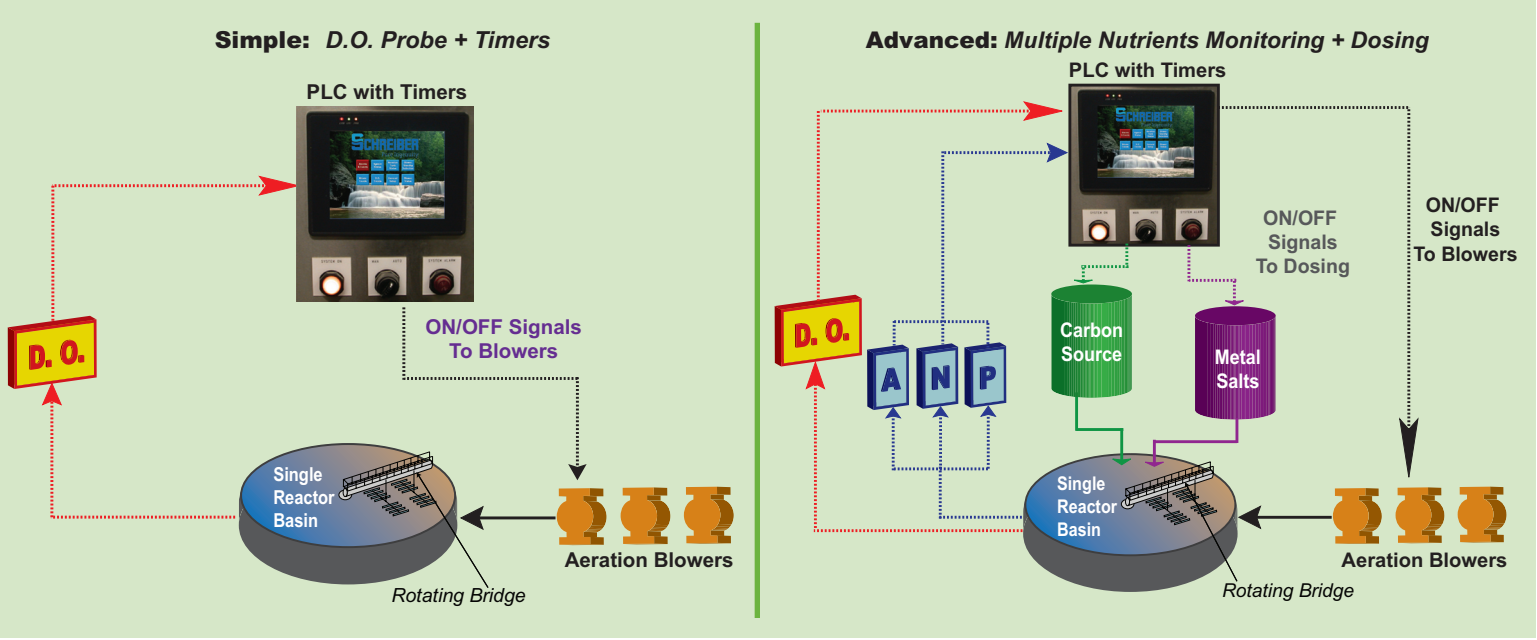


A very flexible biological nutrient control system that is simple to monitor and operate.

SCHREIBER FlexControl

The Schreiber Continuously Sequencing Reactor (CSR) is a continuous flow, complete mix biological system. CSR achieves oxic, anoxic, and anaerobic phases within a single reactor by controlling the dissolved oxygen concentration independent of mixing. In the oxic phase, air is supplied to the reactor and a low dissolved oxygen (DO) level is maintained by the Schreiber *FlexControl* process control system. As the name Schreiber *FlexControl* implies, the Schreiber process control system is very flexible, yet simple to operate. With the *FlexControl*, there are 5 standard levels of control. The Schreiber concept is to select the least complex and least expensive level of control that will produce the degree of treatment required for each facility. The *FlexControl* process control system can be as simple as a DO system with timers or as sophisticated as online monitoring of nutrient levels.

FROM SIMPLE TO ADVANCED



SCHREIBER FLEXCONTROL LEVELS

Although every Schreiber FlexControl level has "designed-in" flexibility, each level has been developed with a particular level of service criteria in mind.

For instance, for those installations where only a simple "DO mode" type of process control is required, level 1 is typically sufficient. Levels 2, 3, and 4 are usually selected for use in plants constrained by the variety of Total Nitrogen, TKN and/or Ammonia limits that are constantly under refinement in today's ever-changing discharge permit requirements.

Similarly, while level 5 is the most complex level of control and produces the highest degree of treatment, it was developed specifically for use in installations that have tight phosphorous limits.

Regardless of the control level selected, once the system is in place and operating, the PLC receives the monitoring signals, does all of the necessary computing and data assessment and sends the controlling signals to operate the plant automatically. Fail-safe back-up systems are incorporated into the system to handle PLC outages and other emergency type situations. Additionally, and, perhaps most importantly, as requirements change over time, the system is easily upgradable.

BENEFITS

- 5 Standard levels to choose from
- Operates to reduce energy consumption
- Operator friendly process control
- Adjusts automatically to variable influent loading
- PLC system minimizes operator intervention
- Patented Process Control System (US 7,416,669 B1)
- Backed by a proven company

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