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ProDELTA THERMAL BIOKILL SYSTEMS

Biological waste produced by laboratories and the pharmaceutical and medical industries is considered hazardous to human health and therefore requires deactivation before it can be safely discharged to the sewer.

The ProDELTA™ PLUS Continuous BioKill System is a skid-mounted thermal biological deactivation unit that performs by using heat to elevate and hold a high temperature to "destroy" living microorganisms and biological wastes. Cooling water is used to cool the waste stream prior to discharging from the skid. Instrumentation installed on the discharge piping monitors and records the effluent temperature, hold time, and flow of the waste being discharged. If for any reason the wastewater does not meet dischargeable specifications the control system automatically recirculates it back to the holding tank for re-treatment.

BATCH BIOKILL SYSTEM WITH PH ADJUSTMENT

CONTINUOUS BIOKILL SYSTEM EXAMPLE PHOTO

Specifications

- 316L SS or fiberglass holding tank
- 316L SS piping
- Steam heating heat exchanger
- Thermal retention for complete deactivation
- Cooling heat exchanger
- Alternating duplex transfer pumps with inlet strainers
- Skid-mounted design, ready to install
- Factory-piped, wired, and tested before shipment
- Indoor installation

Standard Features

- UL-Listed control panel
- NEMA 4 powder-coated steel enclosure
- PLC-based control system with color touchscreen HMI
- Dry contacts for common alarm, influent permissive, and temperature out-of range
- Run permissive for remote enable/disable
- Temperature probes in process and discharge piping
- Seismic tie-down brackets
- Pumped discharge
- Out-of-Compliance prevention system

Optional Features

- Regeneration heat exchanger
- Electrical heating
- Duplex heat exchangers
- pH adjustment
- Automated CIP cleaning
- Double containment (includes leak detection)
- Discharge flow meter with totalizer
- Digital data logger for discharge pH and/or flow
- Custom designs for outdoor installation including winterization