



ScrubPac™ ProClean Type CT Tower Scrubber System

Overview

Bionomic Industries latest breakthrough scrubber system concept takes the industry-leading ScrubPac product line to the next design level through introduction of the streamlined ProClean Type CT Scrubber System. A fully self-contained compact packed tower scrubbing system that offers extremely high performance, the ProClean Type CT requires minimal field labor to install and dramatically reduces erection time and related costs.

Available in two configurations to handle gas streams from 500 to 25,000 cfm, the ProClean Type CT removes water soluble gaseous contaminants at efficiencies needed to meet the most stringent EPA and state pollution control requirements. The system incorporates Bionomic's field-proven Series 5000 Packed Tower Scrubber with other integral components—recirculation pump, required piping, instrumentation and controls—specifically engineered for high reliability, low maintenance and extended service life. All surfaces in contact with gas and liquid feature corrosion-resistant materials, and the scrubber vessel as standard is fiberglass composite construction utilizing a premium grade vinyl ester resin system exceeding the latest industry standards for unmatched quality and integrity.

All ProClean Systems are run tested and debugged at the factory to eliminate lengthy start-up procedures to facilitate critical installation schedules.



Sizes 15–46

Features/Benefits

- **High Throughput Low Pressure Drop Packed Bed with Filament Element Mist Removal Section** that is specifically sized for the application to deliver maximum efficiency and **guaranteed** results.
- **Rugged Next Generation Integrated Recirculation Pump** with patented long life shaft seal and non-overload TEFC enclosure motor.
- **Retractable Spray Header Assembly** that is easily serviced externally for cleaning and maintenance.
- **Heavy Walled Schedule 80 Material Piping Network and Rugged Water Fill/Makeup Valve Assembly** for high reliability and extended service life.
- **Visual Quick Check Sump Level Indicator and Low Sump Level Cutout** for pump dry run protection.
- **Unique Sump Mounted “Service While Running” pH Probe Assembly** to monitor and control chemical reagent or contaminant concentrations.
- **Pumped Blowdown** for convenient sump emptying or dilution.
- **Pump Discharge Pressure Indicator With Chemical Isolation Seal** to accurately determine pump performance.
- **Extra Large Capacity Recycle Sump** acts as a heat sink, holds sufficient scrubbing solution or chemical reagent to handle spike loading conditions.
- **Central Control System Panel with NEMA 4 Enclosure** contains everything necessary to operate and ensure a smooth running ProClean System.



Sizes 60–241

ScrubPac™ ProClean Type CT System Components

Proven high efficiency Series 5000 Packed Tower Scrubber

System control panel with NEMA 4 weatherproof enclosure

High quality water fill makeup valve assembly

Extra large capacity recycle sump

Low Sump Level Cutout Switch

Retractable easily serviced spray header assembly

Heavy walled Schedule 80 material piping network

Pump discharge pressure indicator with chemical isolation seal

Pumped blowdown

Unique sump mounted “service while running” pH probe assembly

Rugged next generation integral recirculation pump with patented long life shaft seal and nonoverload TEFC enclosure motor

Visual quick check sump level indicator

Available Options

The ProClean Type CT System’s application capabilities are greatly extended with the following available options:

- **Leakproof Seal-less Magnetic Drive Pump** for hazardous or problematic sealing liquids.
- **Scrubbing Liquid Flow Indicator** to verify proper flow of scrubbing liquid to the scrubber.
- **Sump Freeze Protection Package** includes a waterproof blanket of super poly insulation and electric heater with thermostat control for cold weather environments.
- **Conductivity or ORP Control** for oxidation of chemical reagents or contaminant blowdown control in addition to or in lieu of pH.
- **Differential Pressure Indicator** for pressure drop determination across the scrubber.
- **Chemical Reagent Feed System** choices of 50 through 250 gallon capacity tank sizes with precise proportional control metering pump to optimize chemical usage.
- **Control Valve Forced Blowdown with Flow Indicator** for solids bearing gas streams, solid precipitating solutions, or when water dilution is necessary.
- **Hazardous Area Rated Electricals** for flammable or explosion-proof areas.
- **Input or Output Signal Interface** for system monitoring or control at a remote process control center.
- **Specialized Scrubber and Component Construction Materials** for resistance to solvents and other incompatibles.
- **Induced or Forced Draft Fan Assembly, Interconnecting Ductwork, and Grade or Scrubber Mounted Exhaust Stack** to satisfy full scope project requirements.

 **BIONOMIC**
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*Engineered Air Pollution Control
Systems With Unequaled Performance*

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