

PSI Process & Equipment



Pumping Services, Inc.
An Employee Owned Company

February 2016

PSI Newsletter

ISSUE HIGHLIGHTS

Glasco UV

Open Channel
Vertical
Horizontal

Chambered

NONCON 5000

NYWEA 2016

Pumping Services, Inc.

201 Lincoln Blvd.

Middlesex, NJ USA

P: 732 469 4540

F: 732 469 5912

www.psiprocess.com



Dear Readers:

PSI Process and Equipment a Division Of Pumping Services, Inc. a leading manufacturers' Rep Company focused on addressing the area's most challenging water issues, has recently signed an exclusive representative agreement with Glasco UV for the Municipal and Industrial markets for the New York and New Jersey area.

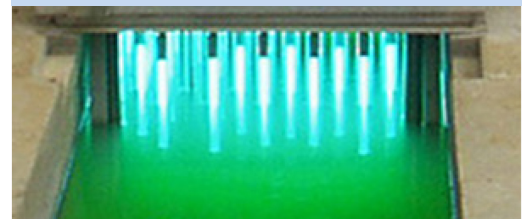
Glasco UV, a New Jersey based manufacturing company has been delivering state of the art UV light technology equipment for over 50 years. In 2011, Glasco UV a privately held company acquired Siemens Water Technologies' municipal UV disinfection business, Sunlight Systems. This provided Glasco UV customers with a wide range of biologically validated UV systems.

Glasco UV systems are designed for municipal water and wastewater disinfection, TOC reduction, Ozone destruction, liquid sugar, chlorine destruction, chloramine destruction and many applications serving residential, commercial, industrial markets.

For municipal wastewater applications Glasco UV provides open channel both vertical and horizontal and chamber designs. Systems are designed to treat unlimited flow rates. Vertical products have been designed to treat low to large flows and are designed for 30" or 60" water levels.

Glasco UV systems have been biologically validated at the Johnstown UV testing center by HydroQual. As water enters a concrete channel and depending on the flow rate, modules (or segments) will turn on. This ensures that only the appropriate number of lamps are on. This saves both lamp life and energy. A Power Distribution Center / System Control Center provides for power, controls, monitoring and alarming. Modules are connected to this center to receive Power, Data and Air.

The water passes by the modules where it is exposed to lethal doses of UV light. The lamps are covered via the level control device at the end of the channel (fixed weir, flap gate or downward opening gate). The modules integrate an automatic quartz cleaning system, which is pneumatically driven.



GLASCO –UV Vertical Open Channel

David J. Silverman P.E. 347.563.0766
New York Region
John Corkery 732.667.1800
New York-New Jersey
Denis Rehse 732.667.1820
New Jersey
Dale Parkhurst 732.667.1805
VP Sales

Roger Parkhurst 732.667.1804
New Jersey
Brett Anderson 732.667.1826
New York-New Jersey
Engineering Assistance 732.667.1833
Ana Hende, Sean Paratore
Martin Striefler 732.667.1861
Aftermarket Sales NJ/NY

Edward Cornell 732.667.1818
Project Management
Richard Scott 732.667.1816
Project Management
David Hull 732.667.1803
Estimating Management
Richard Malt 732.667.1814
VP Service Manager

Spotlight on

Glasco -UV

Glasco U-V has been installing traditional horizontally oriented UV disinfection systems since the 1990s and horizontal operation modules are lowered into their stainless steel support systems. Once in place, the module's utilities (power, data and air) are connected to the Ballast Control Center (BCC) and System Control Center (SCC) directly or through a junction box, which spans the channel. As the wastewater enters the channel, banks of modules will turn on in relationship to a flow signal.

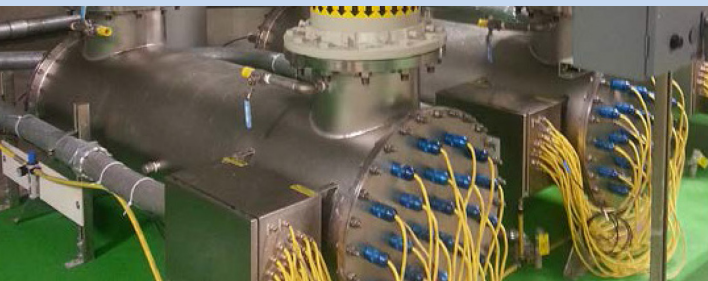
To aid in lamp and energy savings, the system can be designed to dim the UV lamps based on a flow signal. The quartz sleeves and UV sensor are automatically cleaned on a periodic basis. The protective sleeves are wiped to prevent build-up from adhering to the quartz. Modules are removed for service, cleaning or for seasonal storage



GLASCO -UV Horizontal Modules

Glasco UV has been installing Chambered wastewater UV disinfection systems since the 1980s. Chambers are designed to treat up to 5 MGD per vessel. The Multiple Chambered Illumination Wastewater series uses chambers (vessels) to treat a large range of flow rates.

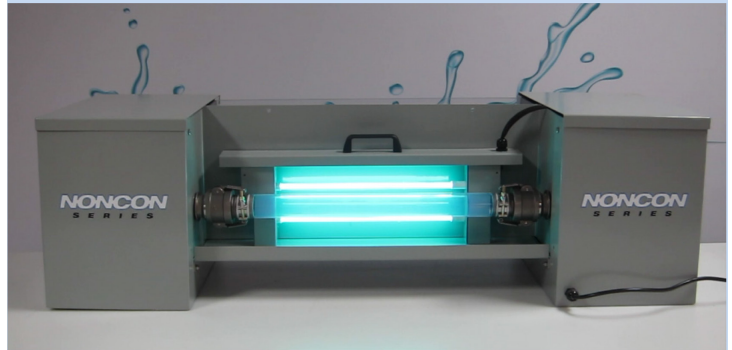
For large flows, multiple vessels are used. Wastewater enters the chamber and once inside, it is exposed to UV light. The UV lamps produce the majority of its light in the 254-nm wavelength.



GLASCO -UV Chambered Modules

The "NONCON 5000" Series is a "flow through" fluoropolymer style of ultraviolet (UV) water and wastewater disinfection systems. Unlike our other systems where the UV lamps are immersed into the water (using protective quartz sleeves), the "NONCON 5000" uses non conductive transparent fluoropolymer tubes to transport the water close to the UV lamps.

The UV lamps are positioned in the air and shine their rays (@ 254 nm) through the fluoropolymer tubes and to their intended targets, microorganisms. The lamps are not in the water.



GLASCO NONCON 5000 - lamps are not in the water

Systems use special fluoropolymer tubes to transport water, wastewater and other liquids in close proximity to the UV lamps. The fluoropolymer tubes are transparent and manufactured to allow UV light in the 254 nm range to penetrate the tube's walls and disable microorganisms. Lamps are positioned around the tubes in the reflective reactor.

PSI Process and Equipment will be exhibiting at the **New York Water Environmental Association's** 88th Annual Convention Feb 7-10, 2016 located at the NYC Marriott in Times Square New York City. Booth Numbers 164, 165, 166

- | | |
|--------------------------------|---------------------------|
| ASA Analytics, Inc. | Headworks Bio |
| AWT | Headworks Mechanical |
| BIOWORKS NA | Environmental Dynamics |
| AWI Anthratch U.S. | Inc. (EDI) |
| Atlantium-UV | TIGG Corporation |
| United Blower | Monroe Environmental |
| NOVA Water | Danfoss LLC |
| Philadelphia Mixing | ITS Instrument Technology |
| Glasco-UV | Systems PSI |
| Orica Watercare | Brentwood Industries |
| Fresh Creek Technologies, Inc. | American-Marsh |
| Moyno TR Muncher | PSI Rental, Service and |
| Phoenix Process Equip. | Pump Around Systems |
| | WTP Equipment Corp |

Contact PSI for your Process Equipment needs