

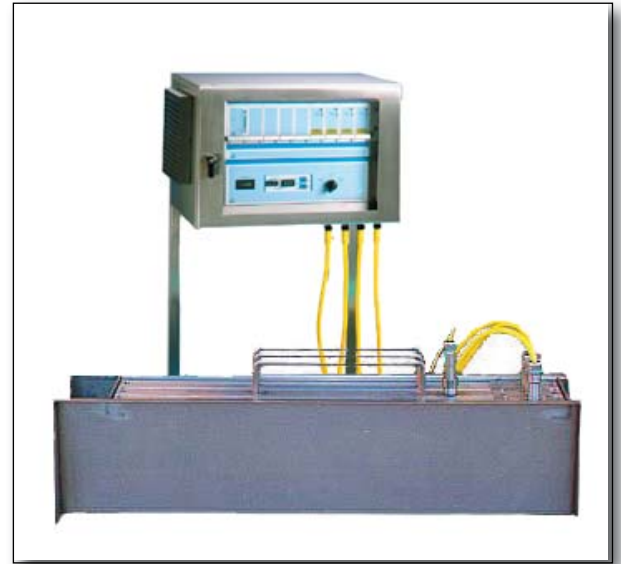
UltraDynamics®

Series 8300

Horizontal Open Channel

The Series 8300 Ultraviolet Disinfection product line is designed to provide user friendly operation, ease of installation and maintenance. The Series 8300 incorporates state-of-the-art components to provide a simple, reliable product for the control of waterborne microorganisms in wastewater. Low pressure germicidal arc lamps are protected by quartz sleeves and positioned horizontally, in an open channel, parallel with the flow of effluent.

Reliability is our number one priority at Severn Trent Services. Each 8300 Series system includes rugged stainless steel UV lamp modules designed to be light weight and easy to handle. Lamp modules may be mounted in a prefabricated stainless steel channel or in a concrete channel built on site. A compact, power supply center houses all of the UV lamp power supplies and controls, providing easy access for operation and maintenance. Interconnecting cables are protected with rugged PVC insulation and terminate through waterproof, multi-pin connectors.



Features:

- ◆ Easy Installation
- ◆ Light Weight, Stainless Steel Lamp Modules
- ◆ Quick Disconnect Power Cables
- ◆ Efficient, Plug-In Electronic Power Supplies
- ◆ UV Intensity Monitor
- ◆ Designed for Outdoor Operation
- ◆ Compact control panel bolts to a wall or railing near the channel
- ◆ UV intensity monitor alerts operators when sleeve maintenance is required



GENERAL

Prefabricated Channel

- ◆ 304 stainless steel construction
- ◆ Optional level control weir and inlet transition box
- ◆ Built-in lamp module service rack

UV Lamp Module

- ◆ 304 stainless steel construction
- ◆ 2 and 4 lamp configurations
- ◆ Maximum weight including lamps & sleeves - 20 pounds
- ◆ Low pressure, slimline, UV lamp with single end connection
- ◆ Test tube type protective quartz sleeves; PVC insulated, waterproof cable and connector

System Control Panel

- ◆ Corrosion resistant stainless steel enclosure
- ◆ Key lockable hinged door
- ◆ Wall mounted within 25 feet of lamp modules

Lamp Power Supplies

- ◆ Plug-in circuit card design
- ◆ Electronic, high frequency
- ◆ Integral ground fault circuit interrupter
- ◆ LED indication of ground fault; LED indication of lamp failure
- ◆ Automatic shutdown on lamp failure

Technical Data

UV Intensity Monitor

- ◆ 0-100% indication of germicidal UV intensity
- ◆ Dual, fully adjustable alarm set points
- ◆ Dual, form-C, alarm output contacts
- ◆ 240 Vac \pm 20%, 50/60 Hz, single phase, 3 Watts
- ◆ 4-20 mA output - 400 ohm maximum

Warranty and Capability

Severn Trent Services UltraDynamics® Ultraviolet Disinfection products are warranted for eighteen months from the date of invoice, or twelve months from the date of installation, whichever is earlier.

Disinfection technologies, water quality monitors and instrumentation for water and wastewater are areas of specialization. Over 35 years of industrial and municipal application experience in the water and wastewater industries.

Brief Specification

The Ultraviolet Disinfection System shall incorporate low pressure, germicidal UV lamps, positioned horizontally in an open channel, parallel with the flow of wastewater. The system shall include UV lamp modules consisting of a stainless steel frame, protective quartz sleeves, germicidal lamps and power cable.

The UV system shall include a prefabricated stainless steel channel with flanged connections.

A corrosion-resistant control panel shall include electronic UV lamp power supplies, UV intensity monitor, elapsed time meter and power cable receptacles.

System control shall be manual or automatic through the use of an optional PLC Based System Controller. The controller shall provide automatic on/off control of UV lamp banks based upon a 4-20 mA dc flow signal.

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165.0005.12 09/06