

# UltraDynamics®

## Series 8200

### Horizontal Open Channel

The Series 8200 Ultraviolet Disinfection product line is designed to provide user friendly operation, easy installation and maintenance. The Series 8200 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 UltraDynamics®. Each 8200 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 (provided by UltraDynamics®) or in a concrete channel built onsite. 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, multipin connectors.

Also available is our automatic quartz sleeve wiping option, as well as low pressure-high output lamp technology



#### Standard System Features:

- ◆ Easy installation
- ◆ Proven horizontal lamp configuration
- ◆ Light weight, stainless steel lamp modules
- ◆ Quick disconnect power cables
- ◆ UV intensity monitor
- ◆ Designed for outdoor operation
- ◆ Compact control panel bolts to a wall or railing near the channel



#### Auto Wiping System Features:

- ◆ Reduced O & M costs associated with manual cleaning
- ◆ Improved lamp efficiency for enhanced UV dose delivery
- ◆ Cleans automatically while the system is in operation
  - ◆ No need to shut down the system or bypass lamp modules for routine cleaning
- ◆ Uses existing proven wiper timer technology
  - ◆ Operator can adjust frequency and duration of cleaning cycles
- ◆ Module submersible during limited flood events
- ◆ Wipes sensor lens every wipe cycle to reduce false alarms due to sensor fouling



Model No.	Peak Flow (GPM- m3/hr)**	Lamp Type	No. of Lamps Modules	No. of Lamps	Power Requirements	Power Consumption
82S2-01	10 (2.25)	Short	1	2	120/240 Vac, 50/60 Hz	100 Watts
82S2-02	20 (4.5)	Short	2	4	120/240 Vac, 50/60 Hz	200 Watts
82S2-03	30 (6.8)	Short	3	6	120/240 Vac, 50/60 Hz	300 Watts
82S2-04	40 (9.0)	Short	4	8	120/240 Vac, 50/60 Hz	400 Watts
82S2-05	50 (11.0)	Short	5	10	120/240 Vac, 50/60 Hz	500 Watts
82S2-06	55 (12.5)	Short	6	12	120/240 Vac, 50/60 Hz	600 Watts
82L2-01	25 (5.65)	Long	1	2	120/240 Vac, 50/60 Hz	185 Watts
82L2-02	50 (11.0)	Long	2	4	120/240 Vac, 50/60 Hz	370 Watts
82L2-03	75 (17.0)	Long	3	6	120/240 Vac, 50/60 Hz	555 Watts
82L2-04	100 (22.7)	Long	4	8	120/240 Vac, 50/60 Hz	880 Watts
82L2-05	130 (29.5)	Long	5	10	120/240 Vac, 50/60 Hz	930 Watts
82L2-06	140 (31.8)	Long	6	12	120/240 Vac, 50/60 Hz	1,115 Watts
82L2-07	180 (40.9)	Long	7	14	120/240 Vac, 50/60 Hz	1,300 Watts
82L4-03	150 (34.0)	Long	3	12	120/240 Vac, 50/60 Hz	1,115 Watts
82L4-04*	200 (45.4)	Long	4	16	120/240 Vac, 50/60 Hz	1,485 Watts
82L4-05	250 (56.75)	Long	5	20	120/240 Vac, 50/60 Hz	1,850 Watts
82L4-06*	300 (68.1)	Long	6	24	120/240 Vac, 50/60 Hz	2,225 Watts
82L4-07	350 (79.5)	Long	7	28	120/240 Vac, 50/60 Hz	2,600 Watts
82L4-08*	400 (90.8)	Long	8	32	120/240 Vac, 50/60 Hz	2,965 Watts
82L4-09	450 (102.2)	Long	9	36	120/240 Vac, 50/60 Hz	3,335 Watts
82L4-10*	500 (113.5)	Long	10	40	120/240 Vac, 50/60 Hz	3,705 Watts
82L4-11	550 (124.9)	Long	11	44	120/240 Vac, 50/60 Hz	4,075 Watts
82L4-12*	600 (136.2)	Long	12	48	120/240 Vac, 50/60 Hz	4,445 Watts

\* These Models available with the automatic wiper option

\*\* Peak flow based on year round disinfection 65%T, TSS<30 mg/l, Fecal Limit< 200MPN/100ml

## 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 (optional) prefabricated stainless steel channel.

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

The UV system shall be UltraDynamics® Series 8200

The UV system shall include an (optional) automatic quartz sleeve wiping mechanism.

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