

UltraDynamics®

Low Flow Purifier

Series 8102-PP

The UltraDynamics® Series 8102-PP represents one of the worlds simplest and most practical means of destroying disease-causing microorganisms in water. This is accomplished without the use of heat or harsh chemicals, without effecting taste and odor, or adding irritating or allergenic properties to the water. UltraDynamics® purifiers have proved effective in countless commercial, industrial and domestic applications around the world.

Series 8102-PP ultraviolet purifiers are ruggedly built from corrosion-proof, reinforced polypropylene. Very economical, these purifiers operate with low power consumption and at pennies a day. They are simple to maintain and are well-suited to domestic applications.

A complete purifier unit consists of the reaction chamber, germicidal UV lamp, pure fused quartz sleeve and remote plug-in power box with LED lamp-out indicator. Operation from 120 Vac or 220 Vac is available. Series 8102-PP purifiers include a 5 micron filter as a standard feature.

A purifier is available for clear/fresh water or high purity water applications in flow rate of 0.5 GPM.

The 8102-PP purifier is designed to handle many small flow applications such as drinking water in mobile homes, residential dwellings and offices; pre and post treatment for reverse osmosis systems; water vending machines and laboratories.



Features:

- ◆ Simple, compact, reliable design
- ◆ Fast, easy installation
- ◆ Low power consumption
- ◆ Economic to operate
- ◆ Remote power supply pack
- ◆ Built-in lamp failure indicator
- ◆ Easy access to UV lamp for maintenance
- ◆ Flow rate capacities of 0.5 GPM
- ◆ Designed for clean/fresh water or high purity water applications
- ◆ Effective in commercial, industrial and domestic applications
- ◆ Well-suited to domestic drinking water disinfection



Technical Data

Material: Corrosion-proof, reinforced polypropylene reactor vessel

Operating Pressure: 100 psig maximum

UV Lamp: Low pressure, germicidal, rapid start

Protective Sleeve: Pure fused quartz sleeve

Power Requirements: 120 Vac, 0.6 amps, 60 Hz, or 220 Vac, 0.3 amps, 50 Hz

Indicators: Lamp failure LED

Filter: 5 micron, 3" x 10" cartridge filter (PP modules only)

Inlet/Outlet Size: 3/4" NPT

Power Box: Remote plug-in type, grounded and fused to comply with electrical codes.

Model	Capacity Clear/Fresh Water	Capacity High Purify Water	Dimensions	No. of Lamps	Build-in Filter
8102-PP.5	0.5 GPM	1 GPM	15" x 5" x 6"	1-12"	Yes

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 (UV) Disinfection System shall incorporate a single low pressure, germicidal UV lamp positioned vertically in a corrosion-proof, reinforced polypropylene reactor vessel. The system shall include a UV lamp, protective quartz sleeve, (PP modules include 5 micron cartridge filter), and remote power supply for (120 Vac) (220 Vac), 50/60 Hz operation with built-in lamp failure indicator.

The UV disinfection unit shall provide disinfection for a flow rate of 0.5 GPM. Process connections shall be 3/4" NPT for both inlet and outlet.

The UV lamp and quartz sleeve shall be easily accessible from the top of the unit without the use of tools.

The UV Disinfection System shall be UltraDynamics® Series 8102-PP.

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