

# UltraDynamics®

## Series 8102-JD

### Residential Wall Mounted

Potable water is defined as water which is fit to drink. Often times potable water supplies may be contaminated with microorganisms which are unhealthy for human or animal consumption. In such cases it is best to identify and eliminate the source of contamination, however, in many cases the source may be difficult to identify or too costly to eliminate. One method often used to eliminate such contamination is to treat the water supply with Ultraviolet (UV) Light. When exposed to UV energy, microorganisms are deactivated and can no longer reproduce and considered microbiologically dead.

UltraDynamics® offers a UV disinfection unit designed specifically for low flows of 5 to 7 gallons per minute. UltraDynamics® 8102-JD UV system is easily installed on the water feed to any dwelling or facility at the Point of Entry (POE) or Point of Use (POU). As the water passes through the 8102-JD it is subjected to a dose of UV energy before being distributed to faucets and other points for discharge and consumption.

The all-stainless steel body ensures a lifetime of use without corrosion or leaks, and the energy efficient UV lamp consumes only 75 watts of power, the same as a 75 watt light bulb. A remote mounted power supply pack provides a continuous source of power to the UV lamp while monitoring the lamp status.

A bright green LED indicator on the front of the power pack gives indication of lamp failure. The UV lamp is protected by a high purity quartz sleeve which is sealed by a single, UV resistant O-ring. The UV lamp and protective quartz sleeve are easily removed through the top of the unit.

The quality and simplicity of this system provides the user with a high level of performance and reliability. UltraDynamics® provides a 100% money back guarantee; if not fully satisfied with our 8102-JD UV disinfection unit, we will provide a refund of the full purchase price.



### Features:

- ◆ Simple, reliable design
- ◆ 304 stainless steel construction
- ◆ Fast, easy installation
- ◆ Remote power supply pack
- ◆ Built-in lamp failure indicator
- ◆ Easy access to UV lamp for maintenance
- ◆ Built-in flow control



# TECHNICAL DATA

**Type of Liquid:** Water

**Flow Rate:** 7 U.S. gallons per minute - maximum

**UV Dosage:** 16,000  $\mu\text{Ws}/\text{cm}^2$  (Meets DOH Guidelines) or 40,000  $\mu\text{Ws}/\text{cm}^2$  at 3 gpm or less.

**Operating Pressure:** 100 psig - maximum

**Power Requirements:** 120/240 Vac, 50/60 Hz, 0.6 amps

**Material:** Electropolished 304 Stainless Steel

**Indicators:** Lamp failure LED

**UV Lamp:** low pressure, rapid start

**Protective Sleeve:** High purity fused quartz

**Flow Control:** Orifice

**Mounting:** Stainless Steel plate, 4 bolts

**Overall Dimensions:** 24" high x 4" wide x 4" deep (613 mm x 100 mm x 100 mm)

## 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.

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