



UV-6000

Ultra Violet Water Sterilizer

Description

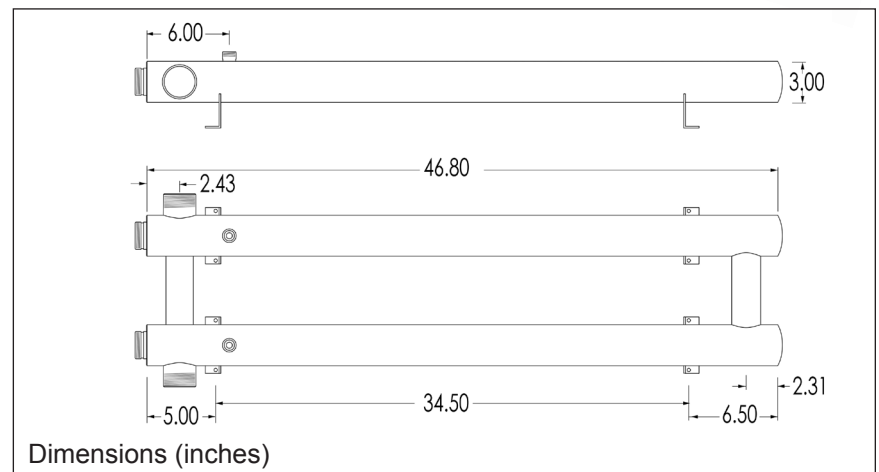
The UV-6000 is a robust, high quality ultra violet sterilizer for light commercial applications. Typically installed at the point of entry, it can treat municipal water as well as ground water from drilled or dug wells, and surface water from lakes, ponds or rivers (pre-filtration necessary). This sterilizer is perfectly sized to provide drinking water or purified process water for food and beverage processing, pharmaceutical manufacturing, or cooling towers. It is also a very popular system for the disinfection of pools and spa's.

The model UV-6000 contains two low-pressure, high output UV lamps in a manifolded 316L stainless steel reaction chamber. It comes with two electronic ballasts that feature a lamp-out alarm if there is no power to the lamp.

Combined with appropriate pre-filtration, this sterilizer is the centre piece of a complete water treatment system for the elimination of bacteria and viruses and reduction of taste and odour at the point of entry.

Additional features for this sterilizer can be ordered, such as a UV-monitoring system for fail-safe operation, a thermo-sensitive purge valve at the out port to prevent overheating during no-flow conditions, or volt-free contacts for remote signaling.

The UV-6000 kills most harmful microbiological contaminants, such as viruses, bacteria and protozoa with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of 99.99% (log 4) or more (*Giardia*, *E. coli*, *Cryptosporidium*, *Vibrio cholerae*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).



Applications

- ▶ Potable Water
- ▶ Process Water
- ▶ Beverage Production
- ▶ Fish Hatcheries
- ▶ Cooling Towers
- ▶ Pools and Spa's
- ▶ Bottling Plants

Benefits

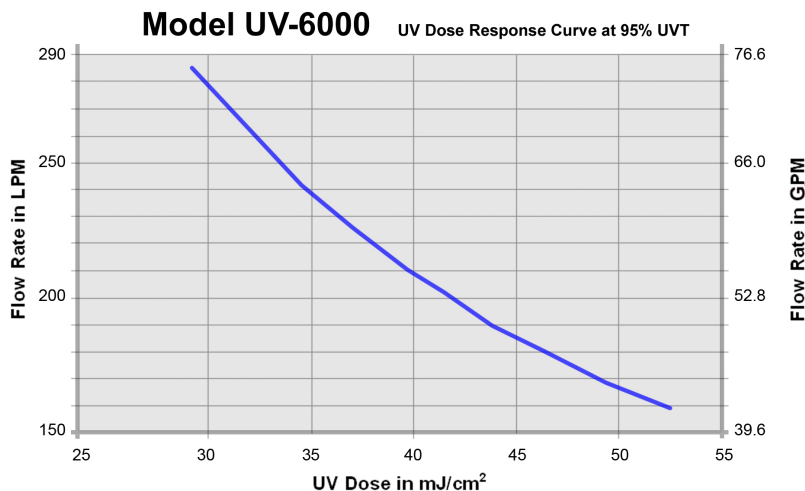
- ▶ Efficient Disinfection, Low Cost per Litre
- ▶ Exceptional High UV Dose
- ▶ Extremely Simple to Use and Maintain
- ▶ High Quality Stainless Steel Reaction Chamber
- ▶ Easily Upgradeable with Optional Features
- ▶ Made in Canada



Flow Range:	205 - 500 litres per minute (54.1 - 132 GPM) 12,300 l (12.3 m ³) - 30,000 l (30 m ³ /hour / 295 - 720 m ³ /day 3246 - 7920 gallons/hour, 77,900 - 190,000 gallons/day
UV Dose Applied (95% UVT):	16 mJ/cm ² (16,000 μWsec/cm ²) @ 500 LPM / 132 GPM 30 mJ/cm ² (30,000 μWsec/cm ²) @ 270 LPM / 71.3 GPM 40 mJ/cm ² (40,000 μWsec/cm ²) @ 205 LPM / 54.1GPM
Electrical:	110 Volt AC / 50 - 60 Hz (Part # P6000/QS4E-1) 240 Volt AC / 50 - 60 Hz (Part # P6000/QS4E-2)
Power Consumption:	172 VA @ 120 V, 178 VA @ 240 V
Ballast:	Electronic Ballast w/ Lamp Out Alarm, Power LED, Running Days Countdown on LCD Display (Resettable) Model RH51-800-95L (Wyckomar Part # 4-BE-800-14/30ECO)
Ballast Enclosure Rating:	IP64
Number of Lamps:	2 at 100 Watts, 800 mA (Part # RL-100/1197T6) Low-Pressure UV
Optional UV Monitor:	Analog (Part # 4-UV/MS50-1/2 V3) / Digital (Configuration Dependent)
Min/Max. Operating Temperature:	T _{min.} = 3 °C (37 °F), T _{max.} = 40 °C (104 °F)
Max. Operating Pressure:	125 psi - 8.6 bar
Plumbing:	2" MNPT In/Out
Chamber Material:	316L Stainless Steel
Shipping Size and Weight:	1 box 52x16x9 inches, 46 lbs / 21 kg

Specifications subject to change

Dose Chart



Additional Features / Configuration Options:

- Volt-Free (Dry) Contacts on Ballasts
- Thermosensitive Purge Valve at Out Port
- Rack- or Skid-Mounted for Ease of Installation and On-Going Maintenance on Site
- Integrated Control Panel with Digital Touch Screen Display and Remote Access for Comprehensive System Management and for Capturing / Logging of Sensor and Operation Data
- Available w/ Sanitary Tri-Clamp Fittings

Important Considerations

This UV sterilizer assumes certain water quality parameters to be met for proper operation. If the source water does not meet the following criteria, pretreatment has to be considered:

Turbidity (Suspended Solids): Must be < 1 NTU at the time of disinfection. There must be a 5 micron or less sediment prefiltration system installed before the UV system.

Total Hardness (Sum of Calcium and Magnesium): Must be < 10 gpg (grains per gallon)

Iron: Must be < 0.3 ppm (parts per million)

Manganese: Must be < 0.05 ppm

This UV unit can be manifolded in parallel for higher flow rates and can be customized for many applications with pre-filtration into All-in-One rack-mounted systems.