



UV-6000

Ultra Violet Water Sterilizer

Description

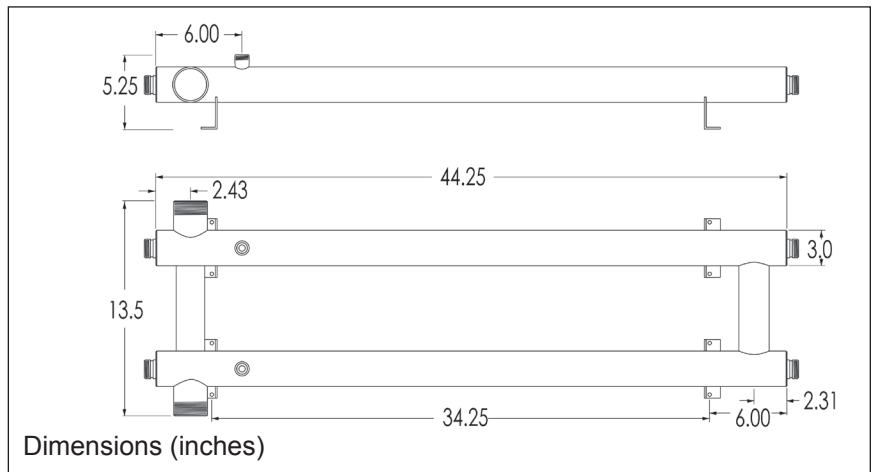
The UV-6000 is a robust, high quality ultra-violet sterilizer for light commercial applications. Typically installed at the point of entry, it can treat municipal water as well as ground water from drilled or dug wells, and surface water from lakes, ponds or rivers (pre-filtration necessary). This sterilizer 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 in no-flow conditions, or volt-free contacts for remote signaling.

The UV-6000 kills most harmful pathogens 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

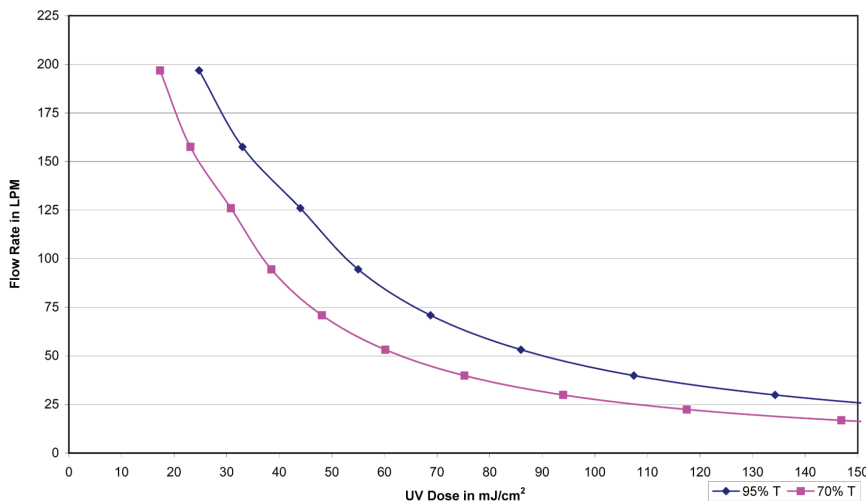
- ▶ Efficient Disinfection, Low Cost per Litre
- ▶ Exceptional High UV Dose
- ▶ Extremely Simple to Use and Maintain
- ▶ High Quality Stainless Steel Reaction Chamber
- ▶ Easily Upgradeable with Optional Features
- ▶ Made in Canada



Rated Flow:	302 litres per minute (80 GPM) 18,170 litres (18 m ³)/hour, 436 m ³ /day (4,800 gallons/hour, 115,200 gallons/day)
Initial UV Dose at Rated Flow:	36 mJ/cm ² (36,000 µsec/cm ²) @ 95% UVT 27 mJ/cm ² (27,000 µsec/cm ²) @ 70% UVT
Electrical:	110-130 Volt AC / 50-60 Hz (Part # P6000/QS4E-1) 220-240 Volt AC / 50-60 Hz (Part # P6000/QS4E-2)
Power Consumption:	172 VA @ 120 V, 178 VA @ 240 V
Ballast:	2 x Electronic Ballast (Part # 4-BE-800WL30-1/2) w/ Lamp Out Alarm, Power LED
Number of Lamps:	2 (Part # RL-100/1197T6)
Lamp Wattage and Current:	100 Watts, 800 mA
UV Monitor:	Optional (Part # 4-UV/MS50-1/2)
Solenoid Valve:	Optional (Part # 4-SV-2000-1)
Hour Meter:	Optional (Part # 4-HM-R100) (one each per lamp)
Max. Operating Temperature:	37 °C (98.6 °F)
Max. Operating Pressure:	125 psi - 8.6 bar (tested to 500 psi)
Plumbing:	2" MNPT In/Out
Chamber Material:	316L Stainless Steel
Shipping Size and Weight:	1 box 52x16x9 inches, 46 lbs / 21 kg

Dose Chart

UV-3000 UV Dose Response Curve (Double up Flow Rate)



Additional Features (Optional):

- Electronic Deposit Control System with PVC or Stainless Reaction Chamber
- Volt-Free Contacts on Ballasts for Remote Signaling
- Purge Valve at Out Port for Overheat Protection
- Ballasts with Hour Meter for Total Runtime Display
- Rack- or Skid-Mounted for Easy Installation

Filtration

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.