



UV-1500

Ultra Violet Water Sterilizer

Description

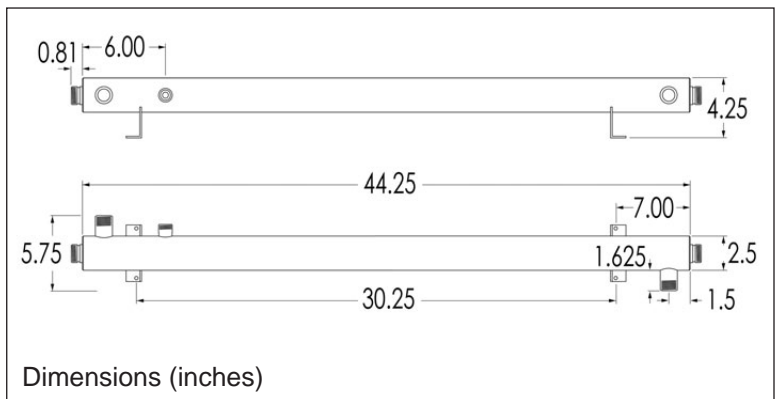
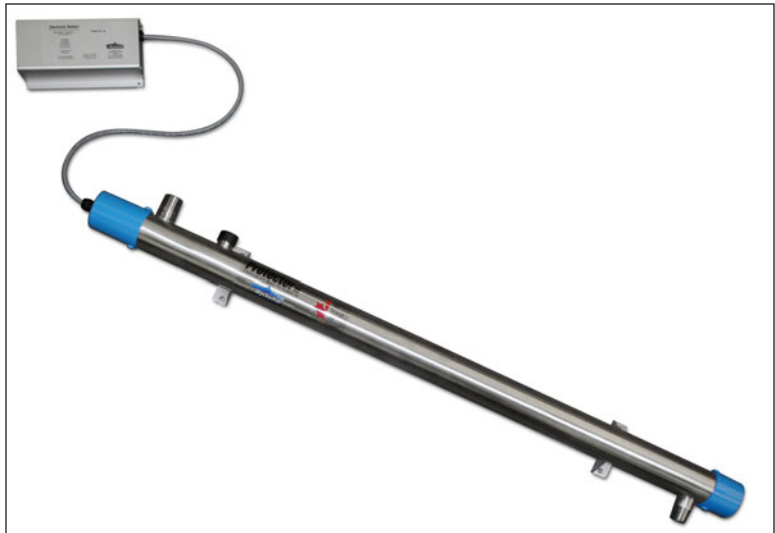
The UV-1500 is a robust, high quality ultra-violet sterilizer that offers very efficient treatment at a low cost per unit volume. Typically installed at the point of entry, it can treat municipal water as well as ground water from drilled or dug wells, or surface water from lakes, ponds or rivers (pre-filtration necessary). This sterilizer is perfectly sized to provide drinking water or purified process water for large houses and mansions, as well as for commercial and light industrial applications.

The UV-1500 contains a low-pressure, high output UV lamp in a 304L stainless steel reaction chamber (316L available). It comes with an electronic ballast that features 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 on the ballasts for remote signaling.

The UV-1500 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
- ▶ Commercial and Light Industrial Applications
- ▶ Pharmaceutical Manufacturing
- ▶ Butcher Shops
- ▶ Hotels and Restaurants
- ▶ Pools and Spa's
- ▶ Food and Beverage Processing

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



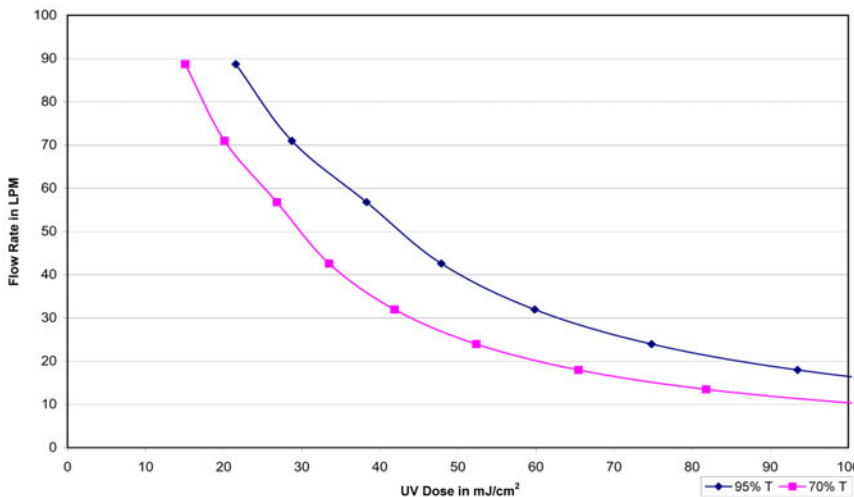
Specifications

Part # P1500/QS4E-1/2

Rated Flow:	57 litres per minute (15 GPM) 3420 litres (3.4 m ³)/hour, 82 m ³ /day (900 gallons/hour, 21,600 gallons/day)
Initial UV Dose at Rated Flow:	42 mJ/cm ² (42,000 μWsec/cm ²) @ 95% UVT 27 mJ/cm ² (27,000 μWsec/cm ²) @ 70% UVT
Electrical:	110-130 Volt AC / 50-60 Hz (Part # P1500/QS4E-1) 220-240 Volt AC / 50-60 Hz (Part # P1500/QS4E-2)
Power Consumption:	102 VA @ 120 V, 107 VA @ 240 V
Ballast:	Electronic Ballast (Part # 4-BE-800WL-1/2) w/ Lamp Out Alarm, Power LED
Number of Lamps:	1 (Part # RL-110/1197T5)
Lamp Wattage and Current:	110 Watts, 800 mA
UV Monitor:	Optional (Part # 4-UV/MS-1/2 V3)
Solenoid Valve:	Optional (Part # 4-SV-1000-1)
Hour Meter:	Optional (Part # 4-HM-R100)
Max. Operating Temperature:	37 °C (98.6 °F)
Max. Operating Pressure:	125 psi - 8.6 bar (tested to 500 psi)
Plumbing:	1" MNPT In/Out
Chamber Material:	304L Stainless Steel (316L optional)
Shipping Size and Weight:	1 box 52x9x9 inches, 17 lbs / 7.8 kg

Dose Chart

UV-1500 UV Dose Response Curve



Additional Features (Optional):

- Electronic Deposit Control System with PVC or Stainless Reaction Chamber
- Volt-Free Contacts on Ballast for Remote Signaling
- Purge Valve at Out Port for Overheat Protection
- Ballast 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 is available as complete system with appropriate pre-filtration (Part # SYS1500/QS4E-1/2) and can be customized for many applications with pre-filtration into All-in-One rack mounted systems.

