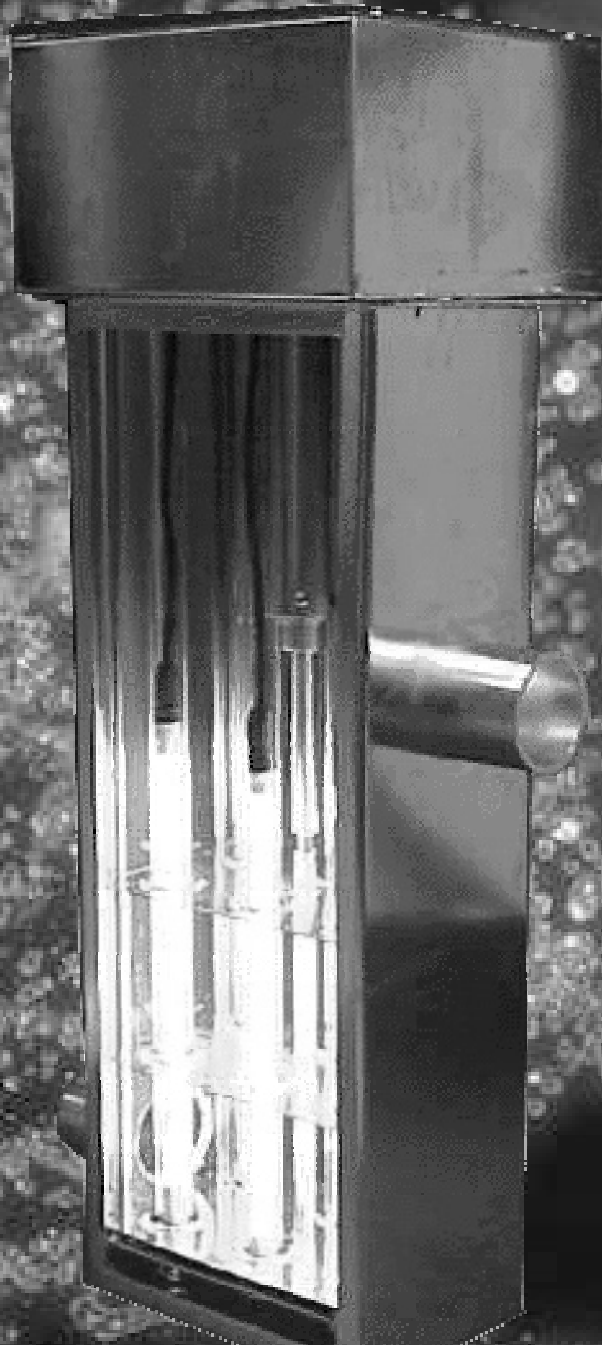
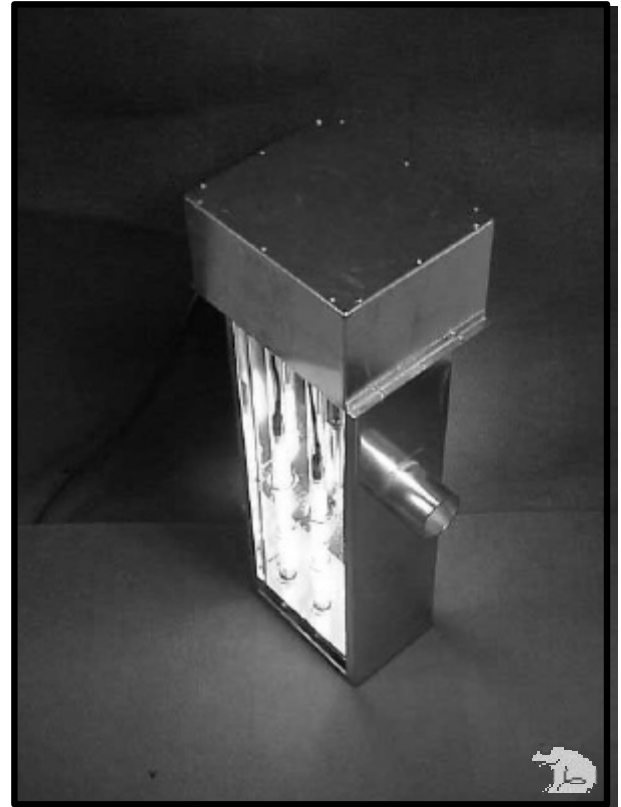
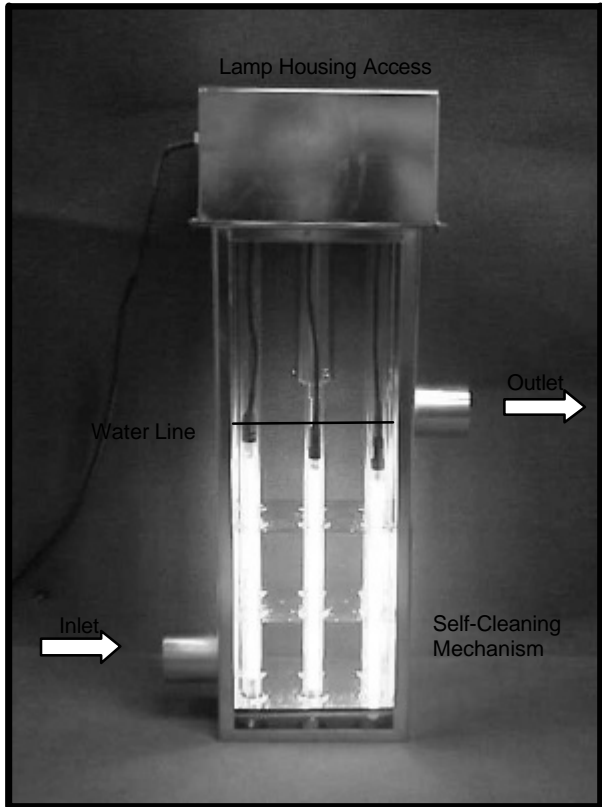


# Ultraviolet Disinfection Vertical "VM" Chamber Type





## Ultraviolet Disinfection for Packaged Wastewater Treatment Systems

### How it works:

Ultraviolet light is invisible, electromagnetic energy with wavelengths, between visible light and x-rays. UV light has long been acknowledged as a means of disinfection because of its ability to kill bacteria by penetrating their outer membrane and impairing proper DNA function.

When UV light is harnessed and properly transmitted, it provides a practical, safe and inexpensive means of water disinfection. This is achieved through the use of low pressure mercury vapor lamps generate UV radiation in wavelengths as 2537A capable of destroying virtually all known forms of microorganisms and viruses.

### Optional Features:

- 304 stainless steel construction
- NPT or Flange fittings
- Electro-polished and passivated
- Elapsed time meter (non-resettable)
- Modified NEMA 4 enclosure
- L.E.D. display to indicate lamp status on/off
- Fan cooled

### Advantages:

- Environmentally positive; no chemicals needed
- Greater safety for operators
- Greater effectiveness on a wide range of pathogens
- Fast treatment times, typically less than 10 seconds
- Lowest operating cost of any disinfection process
- Reduced capital cost
- Reduces liability insurance premiums
- Simple operation
- Minimal system maintenance requirements

### Benefits:

- Quick disconnect for ease of lamp replacement
- Designed for indoor and outdoor installation
- Narrow band Ultraviolet intensity monitor for continuous lamp monitoring
- Elapsed time meter

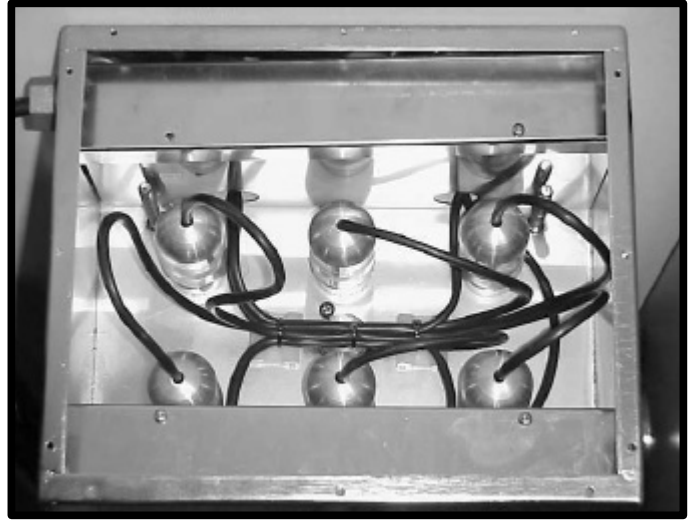
The Tipton Ultraviolet Disinfection Unit has many different designs for your hydraulic flow rates. We will be able to fit our UV Unit into your application with that flexibility. If our standard unit dimensions do not fit your applications, contact us and we will show you one that will. Refer to data sheet for our standard units. The "VM" series houses 36" Medium UV lamps and is designed to handle a range of gallons per minute depending on the number of lamps used. The "VL" series houses 64" Large UV lamps and is designed to handle from 34 - 1360 gallons per minute

### Optional Accessories:

- Sanitary fittings
- Ultraviolet monitors
- Temperature monitor with cutoff
- Automatic or manual quartz cleaning
- Remote monitoring
- NEMA 4X enclosures for outdoor installations
- 316 stainless steel



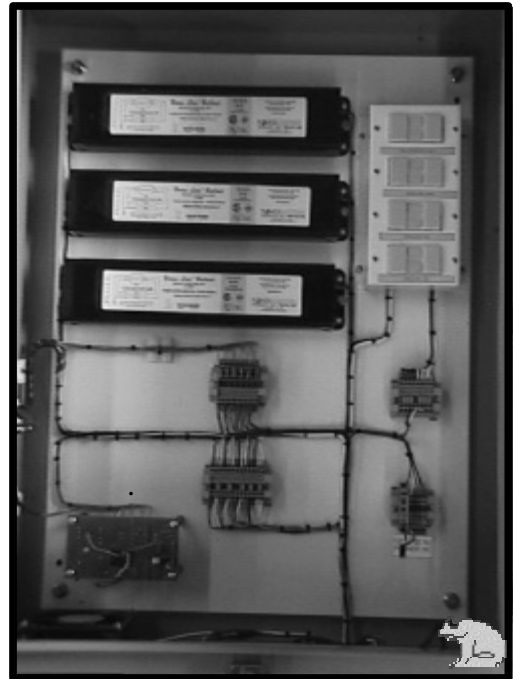
Lamp Access Chamber for Maintenance of Quartz sleeves and ultraviolet lamps. CAUTION must always be used with the use of eye protection when maintaining this equipment.



The cover of the Access Chamber has been removed to show the electrical connection. Each lamp shall be connected to the electrical console for power distribution to the lamps.



The ultraviolet disinfection unit shall be equipped with an automatic wiper system to clean the outside of the quartz sleeves. The wiping system shall be programmed depending the site conditions.



A complete electrical control system shall be supplied with each ultraviolet disinfection unit. The control shall provide the necessary power distribution required for each lamp. It shall be equipped with ground fault circuit interrupters. The controls shall be housed in a NEMA 4X fiberglass enclosure with support legs.



# Ultraviolet Disinfection

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the Use of Chemicals"



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