

Ultraviolet Germicidal Fixtures for Liquid Storage Tanks

Maximize Protection
Eliminate Condensation
Remove Harmful Airborne Microorganisms



American Ultraviolet®

Since 1960. It's all we do.

AMERICAN ULTRAVIOLET

An American Ultraviolet Solution

LTC Series

LTC Ultraviolet Germicidal Fixtures are direct top head mounted units ideally suited for liquid storage tanks with product dropout rates of up to 200GPM. LTC fixtures are designed to mount directly to the tank using a 3" connection, which is provided (other connection sizes and types are also available).

Standard Features:

- 2 UVC lamps
- 10" filters
- Electrostatic only (10 micron) or dual electrostatic + HEPA (0.3micron) filtration
- 3" NPT female-threaded PVC coupling to tank



Custom LTC Installation with additional heater element

Options:

- Shatterproof lamps
- Lamp-failure indication
- Air flow indication
- Sanitary (Tri-clamp) and flange tank connections
- Heat control
- Rain/sun screen for filters

Tank Vents

American Ultraviolet recommends using tank vents in conjunction with LTC, BT and SC-4 Series fixtures. Tank vents help maintain clean air in the headspace of liquid storage tanks in several ways:

- Vents allow air to exit, so fixtures can constantly feed the tank with fresh, clean air
- If greater than anticipated product dropout occurs, reverse suction may also occur, and LTX Series (10" filters) and STX Series (14" filters) Tank Vents will prevent the tank from receiving contaminated air. The LTX tank vents work best with LTC fixtures, while STX tank vents are designed for BT and SC-4 fixtures.



For both the STX and LTX Series Tank Vents, American Ultraviolet offers a basic 10-micron electrostatic filter as the base model, and an upgraded, 0.3-micron HEPA filter model used in most food applications. American Ultraviolet can also provide virtually any size and type of tank connection fitting for our tank vents.

Please visit www.auvhvac.com for additional product information

For Every Application

BT Series

BT Ultraviolet Germicidal Fixtures are more advanced than the LTC Series and are primarily for liquid storage tanks with product dropout rates of up to 1,500GPM. They can be remote, or mounted directly to the tank. BT Series fixtures include many standard features that are optional on the LTC Series, and the added versatility of remote mounting makes maintenance very easy.

Standard Features:

- >30,000 μ W-s/cm² UVC dosage
- High-output lamps
- Shatterproof lamps
- 4, 6 and 8-lamp configurations
- LED-per-lamp lamp-out indication
- Air flow indication
- Built-in rain/sun cover for filter & control panel
- Single-piece cover design to help resist outdoor elements
- Remote-mount or tank mount
- 4" tri-clamp connection
- (1) 14" x 14" Electrostatic 10 micron pre-filter
- (1) 14" x 14" Absolute 0.3 micron HEPA filter
- 120V/60Hz operation

Options:

- Alternate connection size/types (i.e. flange, straight pipe, larger diameter, etc).
- Heat control



Unique BT Model Information:

4-lamp unit

Model # BT-4-120

- Up to 750 GPM dropout rate when tank mounted
- 0-400GPM when remote mounted (up to 25' away)

6-lamp unit

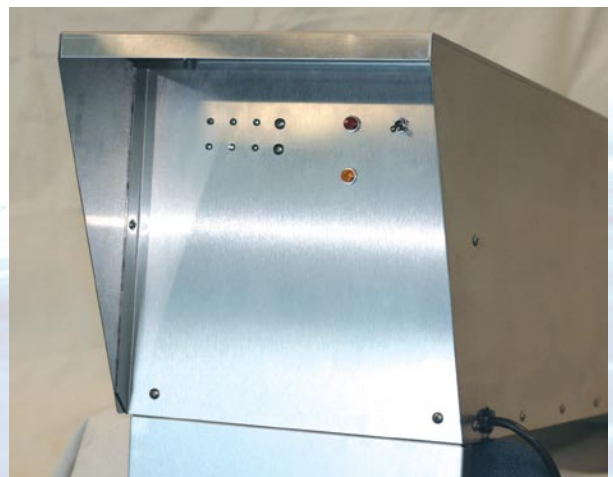
Model # BT-6-120

- Up to 900 GPM dropout rate when tank mounted
- 400-800GPM when remote mounted (up to 25' away)

8-lamp unit

Model # BT-8-120

- Up to 1500 GPM dropout rate when tank mounted
- 750-1200GPM when remote mounted (up to 25' away)



SC-4 Series

SC-4 Ultraviolet Germicidal Fixtures from American Ultraviolet are top-of-the-line, fully customizable UVC air treatment units that provide an outstanding solution for unique liquid storage tank applications. All SC-4 fixtures feature a remote-mounted control panel enclosure and options for output to process controls.



Standard Features:

- (4) high output UVC lamps
- Remote NEMA 4x control enclosure
- High-pressure blower
- Electrostatic (10 micron) and HEPA (0.3 micron) filters
- Air-flow indication
- Lamp/Ballast failure indication
- 4" tri-clamp tank connection
- Remote or tank-mounted

Options:

- Heat control
- 316L stainless steel construction
- Additional lamps
- Higher output blower
- Lamp intensity monitoring
- Food-grade & continuous welds
- Alternate connection sizes and types



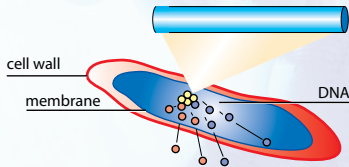
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Keep Liquid Storage Tanks Safe

Because of their warm, moist environment and accompanying condensation, liquid sugar, syrup and water storage tanks are ideal breeding grounds for bacteria, mold and yeast. American Ultraviolet has specifically designed the LTC, BT and SC-4 Series of Ultraviolet Germicidal Fixtures to disinfect air in the headspace of storage tanks, therefore overcoming problems on several levels. All three series of fixtures use a combination of filters, blowers and UVC lamps to maximize protection, eliminate condensation and remove 99.97% of harmful airborne microorganisms. Specifically, positive pressure, provided by the blower, works to eliminate condensation; while the UVC lamps and filters ensure that incoming air is free of airborne microorganisms that cause mold and bacterial growth. The UVC dosage in the BT series even meets, or exceeds, the EPA-required UVC dosage for potable drinking water.



Ultraviolet Germicidal Fixtures from American Ultraviolet “scramble” the DNA of mold spores, yeast and bacteria to render them sterile, and effectively dead. UVC is the ideal solution for liquid storage tank applications because it has no effect on the taste, color or odor of the liquid. In fact, it neither adds nor removes anything from the liquid sugar, syrup or water.

Standard fixtures from American Ultraviolet are designed to be remote, or mounted on the outside of storage tanks, removing any concerns about broken lamps or electrical components being introduced into the product. Because of an extensive array of available options, we can also provide custom equipment for unique applications, and when more stringent sterilization/disinfection requirements are necessary.

For the most effective Ultraviolet Germicidal Fixtures for liquid sugar, syrup and water sterilization, turn to the experts at American Ultraviolet. We’ve been manufacturing UVC Germicidal Fixtures since 1960. More than 40,000 of our products have been used safely throughout the world – any place a concern for clean air exists. American Ultraviolet is the clear leader in UV technology, and remains committed to providing the highest quality equipment at a fair price.

Following are a few of the many satisfied customers American Ultraviolet has helped with Ultraviolet Sterilization needs:

Coca-Cola Bottling

Pepsi Cola

M&M/Mars

Heinz Co.

Dr. Pepper/7-Up

Minute Maid

Hershey’s

Sealtest Foods

Ralston Purina Co.

Molson

Kraft

Dupont

Seagram & Sons

US Food & Drug Administration

Morningstar Foods

Anheuser-Busch

Guinness Brewing

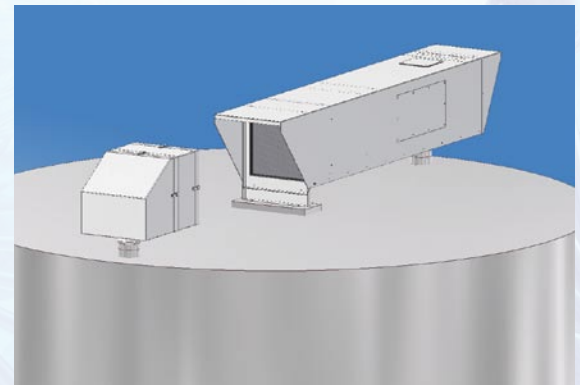
Domino Sugar

National Starch

Mott’s Juice

Lion Brewery

Caribe America Trading Company



Tank Mounting



Remote Mounting

American Ultraviolet equipment is manufactured entirely in the USA.



Additional Liquid Storage Tank Products and Accessories

Internal Tank Equipment

STG Series Fixtures STG Series fixtures mount inside storage tanks to control yeast, mold and bacterial growth. Each fixture is equipped with an externally mounted Tube Guard to indicate whether lamps are operating properly. The STG Series is available in a 17" fixture with a single lamp or as a 36" fixture with the option of one or two lamps.



TTG Series Immersion Units TTG Series fixtures sterilize tank headspace, as well as the liquid in the tank. The lamp is housed in a quartz sleeve for protection, as the lamp is partially submerged, and suspended in the tank by a double-grooved gasket. The stainless steel electrical enclosure (which also holds the lamp in place) fits on top of the tank and features a Tube Guard to indicate that the lamp is operating properly. These fixtures are offered in 18", 28", 36", and 64" insertion depths to fit a variety of tank sizes. When used with an American Ultraviolet in-line liquid disinfection unit, product will leave the tank 99% bacteria-free.

In-line Disinfection Equipment

American Ultraviolet offers a full range of in-line disinfection systems for all liquid sterilization applications. In-line systems for water sterilization emit, at minimum, the EPA-required dose of 40,000 microwatts per square centimeter. Our water units fit applications from 0.5 gpm to millions of gallons per day. Please consult your authorized American Ultraviolet representative for proper sizing of in-line UV disinfection equipment.



American Ultraviolet

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LSB 1008/5M

Prolonged, direct exposure to UVC light can cause temporary skin redness and eye irritation, but does not cause skin cancer or cataracts. American Ultraviolet systems are designed with safety in mind and, when properly installed by a professional contractor, do not allow exposure to UV irradiation and allow for safe operation and maintenance.