

CT-500-UV Ultraviolet Countertop System

PLEASE READ THESE INSTRUCTIONS CAREFULLY AND THOROUGHLY BEFORE INSTALLING SYSTEM.

- Carefully unpack all materials. Be extra careful with the UV lamp and quartz sleeve. They are very fragile
- Unscrew cap of housing (item #5). Insert quartz sleeve (item #7) into hole of UV cap. Be extra careful installing the sleeve to avoid breakage. Sleeve should fit snugly into cap where two O-rings are located.
- The carbon block has one blue end cap and one white end cap. The blue end should be installed so that the housing cap seals at the blue end. This ensures the water will pass by the entire length of the UV lamp.
- Reinstall UV cap to housing. Screw on tightly. Do not over-tighten. Take care not to disrupt the position of the O-ring seal on the housing (item #15).
- Connect transformer (item #14) into the 4 prong UV lamp (item #13). Remove 2 black O-rings for UV lamp. Carefully insert UV lamp into bottom of UV end cap which has the quartz sleeve installed.
- Place UV cap lid (item #3) over open end of cap. Ensure that the four screw holes are bevel side up to accept four screws. Install and tighten the four screws to secure lid to cap.
- Connect diverter valve (item #12) to faucet.
- Open sink faucet and pull diverter valve to begin flow of water. It will take a few minutes for the housing to fill with water. Let it flush through the filter for 5-10 minutes. Turn unit upside down to allow any trapped air to escape. Return filter to normal position on counter top.
- Plug transformer into electrical supply. System is ready for use.

ULTRAVIOLET Disinfecting

UV light is a point of contact disinfecting system designed for bacteria reduction that does not require the addition of any chemicals and does not alter the taste or quality of the water. The UV Counter top system includes low maintenance equipment and is easily installed.

Features of the CT-500-UV Countertop Water Filter

- A 0.5 Micron extruded carbon block provides particle and cyst reduction.
- Hard Glass (Quartz) UV Lamp
- Special plastic sleeve U.V. resistant.
- Counter Top housing
- Stainless Steel Spout
- Compression Fittings
- Wall Mount Ballast Transformer for U.V.

CT-500UV Ultraviolet (UV) is a form of light radiation that effectively destroys waterborne pathogens by penetrating their cell walls and deactivating their DNA, thereby preventing the organism from reproducing. UV is typically used to treat common waterborne bacteria and viruses.



Maintenance

Once the ultraviolet system is on, it should operate continuously. If the Water is not used for an extensive period of time, the homeowner should flush old water in the system upon return. The life of the lamp is rated for 9,000 hours and it must be replaced at least once a year.

UV Lamp Characteristics

Wattage = 10
Current mA = 425 mA
Voltage - 32 V
Hours = 9000 (1 year)
Wavelength=243 Nanometers

The UV chamber is surrounded by a quartz sleeve. Surrounding the quartz sleeve is a special plastic sleeve resistance to UV deterioration. This assembly fits inside the carbon block. The water passes through the black sleeve running the length of the quartz sleeve getting maximum exposure to the UV rays.