

DELTA ENVIRONMENTAL®

3G UV Disinfection Wastewater Unit

Specifically designed to disinfect the effluent from on-site wastewater treatment systems, the 3G Ultraviolet Disinfection Unit reduces fecal coliform bacteria levels to well below the most stringent U.S. treatment standards. The patent pending 3G is safe, harmless, and is designed to be used as a single unit or multiple units for larger flows. There are no adverse effects from overexposing the effluent to germicidal ultraviolet light because UV disinfection does not form byproducts.

The 3G disinfection unit becomes an integral component of the on-site wastewater system. When fully inserted, the subassembly is properly positioned by pins mounted near the top of the disinfection chamber. This well-defined flow path gives the proper fluid exposure time.

The light source is mounted in the center of an anodized aluminum frame that divides the disinfection chamber in half. The frame seals against the inner surface of the disinfection chamber and prevents flow bypass. To control the lamp's surface temperature, the ultraviolet light is surrounded by a clear fused quartz tube. A clear Teflon film covers the tube to minimize surface fouling. When the disinfection chamber is filled with water, the ultraviolet light can operate continuously, whether or not water is flowing. Continuous operation within a lamp surface temperature range of 105–120°F provides optimum ultraviolet light output and long lamp life.

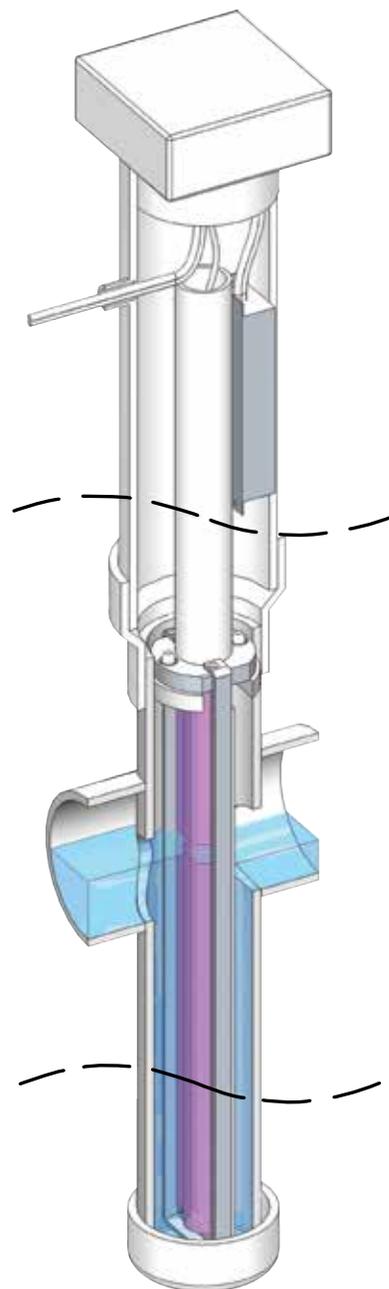
The disinfection subassembly, which extends approximately one foot above grade, is watertight. This protects the electrical connections against a fluid backup that could cause the wastewater effluent level to rise to the maximum height of the upstream treatment plant.

The UV system operates on 120VAC and consumes less than 35 watts. A green LED indicator on the junction box confirms the operating status of the UV system.

Maximum flow through the unit is rated at 6 gallons per minute (gpm):

Suspended Solids < 30 mg/liter – 5-day BOD < 30 mg/liter

Fecal coliform reduction exceeds 3-logs, or 99.9%, at the end of the UV lamp life (one year of continuous operation).



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