Expurgo™ Series in Beverage and Brewing
UV Disinfection Applications

Why use Ultraviolet (UV) Disinfection?

- Provides pathogen control of liquids. The UV light inactivates potentially harmful organisms such as fungi, bacteria, viruses and parasites, rendering them incapable of replication.
- The UV treatment process does not produce any disinfection by-products or change the chemical balance of the liquid.
- When ozonation is used as the primary disinfection agent, UV can be used to eliminate any residual ozone present.
- UV eliminates free Chlorine and Chloramines present in water derived from Municipal fresh water sources.

Why specify the Expurgo™ Series?

- The heart of our UV Systems is our UV-Xtender™amalgam lamps which emit over 400% more 254nm UV than standard low pressure lamps, are over twice the efficiency of typical medium pressure (MP) lamps and have an operating life up to 16,000 hours...2 to 3 times that of typical LP and MP lamps. We warrant our lamps for 13,000 hours!
- The electropolished, 316L stainless steel or CPVC UV Reactor houses more lamps per volume of flow than MP. This provides a more uniform UV intensity field and inherent degree of redundancy. Consider the situation where a single lamp fails in a 2-lamp MP system versus an 8-lamp amalgam lamp system.
- A safe 120°C lamp operating temperature significantly reduces the potential for overheating damage and quartz sleeve fouling associated with the 900°C typical operating temperature of MP lamps. Our UV-Xtender™ lamps also provide a much more stable UV output with variations in water temperature, as compared to standard LP lamps.
- Our Hi-ETM electronic ballasts boast an energy efficiency of 94%. This factor along with the high efficiency of our UV-Xtender™amalgam lamps keep the annual energy costs at least 50% lower than MP systems.
- A standard Industrial Programmable Logic Controller (PLC), controls, monitors and reports the operating status of the UV System via an LCD display and panel indicators. A calibrated ultra stable UV Sensor monitors the 254nm UV irradiance within the UV reactor.
- Access the amalgam UV lamps in just 2 seconds with our proprietary waterproof bayonet fittings. All O-ring seals are ozone and UV resistant Viton.

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