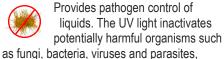


## Expurgo<sup>™</sup> Series in Beverage and Brewing **UV Disinfection Applications**

## Why use Ultraviolet (UV) Disinfection?



rendering them incapable of replication.



The UV treatment process does not produce any disinfection byproducts 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 $Expurgo^{TM}$ Series?



The electropolished, 316L schedule 10S 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 scenario where a single lamp fails in a 2-lamp MP system versus an 8-lamp amalgam lamp system.

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!





Our *Hi-E™* 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.





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.



Access the amalgam UV lamps in just 2 seconds with our proprietary waterproof bayonet fittings. All Oring seals are ozone and UV resistant Viton.