

Patent UV lamps in Pharmaceutical Industry

UV technology is a non-chemical process and does not leave any residuals. UV technology provides rapid, effective inactivation of microorganisms through a physical process. When bacteria, viruses and protozoa are exposed to the germicidal wavelengths of UV light, they are rendered incapable of reproducing and infecting. UV light has demonstrated efficacy against pathogenic organisms, including those responsible for cholera, polio, typhoid, hepatitis and other bacterial, viral and parasitic diseases. Besides that, with process UV-Oxidation, UV light can destroy chemical contaminants such as pesticides, industrial solvents and etc.

PatentLicht UV lamps have pharmaceutical solutions for:

➤ Disinfection

Treatment with the appropriate dose of UV energy will inactivate all types of micro-organisms. A UV dose greater than a log-4 reduction (99.99%) can be easily achieved. With a wide range of Ultraviolet systems, PatentLicht can provide treatment for any application.

➤ DEozonation

Ozone is widely used in the production of ultra-pure water for disinfection and oxidation properties. However, residual ozone is highly undesirable and must be removed prior to water use.

➤ DEchlorination

Mains water contains a chlorine residual that ensures disinfection in the distribution network, which could cause a detrimental effect on the process and treatment membranes. PatentLicht UV medium pressure UV lamps are capable of destroying both free chlorine and chloramines.

➤ TOC-reduction

The short wavelength energy emitted by Patent UV lamps is capable of removing Total Organic Carbon (TOC) by breaking chemical bonds. This process also renders the pollutants more amenable to removal by ion exchange resins.

