



PHARMACEUTICAL APPLICATIONS

Ultraviolet Technology for the Pharmaceutical Industry

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ATG UV TECHNOLOGY ARE MARKET LEADERS IN THE CUSTOM DESIGN, PRODUCTION, INSTALLATION AND MAINTENANCE OF ULTRAVIOLET TREATMENT SYSTEMS FOR A RANGE OF APPLICATIONS.

EXCEPTIONAL DESIGN & QUALITY

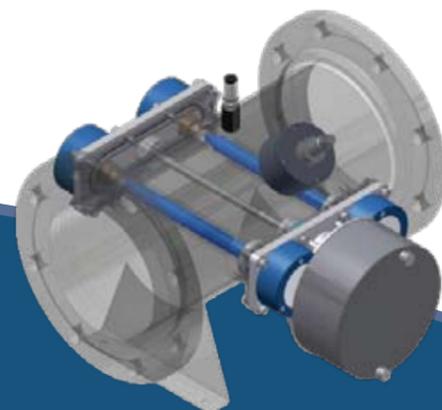
Utilising state-of-the-art technology, precision engineering & inhouse production ensures quality, reliability & performance.



With over twenty five years of industry experience **atg UV Technology** are market leaders, whose state-of-the-art UV product range has provided the pharmaceutical industry with advanced technology solutions for a variety of applications worldwide.

Specially designed and developed for the pharmaceutical industry, **atg UV's** breakthrough chamber design eliminates all crevices and unnecessary fittings, maintaining the integrity of the system.

Our leading UV technology is used in a number of key areas including ultra pure water generation, the treatment of process water and disinfection of contaminated effluent water discharges. Additionally **atg UV's** specialist engineering skills and market-leading technology have also allowed for the development of site specific solutions for a number of leading pharmaceutical companies world wide.



DESIGN & SPECIFICATION

atg UV Technology are experts in the application of Ultraviolet light, offering both medium pressure and low pressure amalgam lamp technologies, allowing for tailored and cost efficient solutions for a variety of pharmaceutical applications.

Flexible designs ensure **atg UV** can provide advanced technology solutions for both new installations and retrofits of existing units, in a range of difficult and challenging environments.

Additionally **atg UV's** manufacturing experience allows for systems to be designed and manufactured for use within Zone 1 and Zone 2 hazardous areas.

QUALITY

atg UV's attitude to design and manufacture is driven by a 'quality first' approach. As an ISO 9001 registered company you can be assured all **atg UV** products are consistently built to the highest standards.

CERTIFICATION AND VALIDATION

As an option **atg UV** can provide certificates for materials of construction, UV lamps and UV monitors, as required by the FDA and other procedures as part of Good Manufacturing Practice.

Validation of UV output is performed on-line without disturbing the operation of the unit and is performed by **atg UV** as part of the service programme. Chambers are manufactured to a specific sanitary design, free of crevices and fittings which could cause contamination.

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, **atg UV** can provide treatment for any application.



DECHLORINATION | Make-up water contains a chlorine residual that ensures disinfection in the distribution network which could cause a detrimental effect on the process and treatment membranes. **atg UV** medium pressure UV lamps are capable of destroying both free chlorine and chloramines.



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



DEOZONATION | Ozone is widely used in the production of ultra pure water for its disinfection and oxidation properties. However residual ozone is highly undesirable and must be removed prior to water use. **atg UV Technology** systems are capable of destroying residual ozone.



TOXIC DISCHARGES | The **atg UV Technology** ADVOX advanced oxidation process allows for the treatment of effluent waste water containing toxic and non-biodegradable contaminants. Once treated this effluent waste water can then be safely discharged into the environment.



EFFLUENT DISCHARGES | **atg UV Technology** have provided specialist systems to a number of key clients to bring contaminated factory/process waste water to within accepted micro-biological limits for safe discharge into the environment.



ULTRA PURE WATER | **atg UV Technology** have a range of systems specially designed for the production of high quality ultra pure water for use within a range of pharmaceutical and electronic production (semi conductors) applications.



Determined to succeed together

