

the power in UV technology

UV in pharmaceuticals toiletries & cosmetics... FACT SHEET

How does Ultraviolet work?

Ultraviolet energy causes permanent inactivation of microorganisms by disrupting DNA so that they are no longer able to maintain metabolism or reproduce.

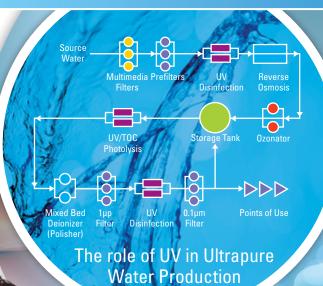
The maximum effectiveness occurs at between 240nm and 280nm, with the most effective wavelength typically at 265nm. The Hanovia Arc Tube produces these wavelengths in abundance. UV also provides the energy for certain chemical reactions and Hanovia systems now provide appropriate technologies for removal of chemical contaminants.

The role of UV in the production of purified water

Hanovia has pioneered the development of UV to provide water to the highest possible standards as demanded by regulatory bodies such as FDA, and quality procedures including Good Manufacturing Practice (GMP).

What is photolysis?

Further developments have seen UV established as the preferred technology for the destruction of impurities and treatment residues. UV photolysis has proven effectiveness in photolysis of chlorine, ozone and Total Organic Carbon (TOC), as required by the United States Pharmacopoeia (USP24).



Most Efficient

- UV is effective against all known microorganisms including spores,
- for ISO 9000 etc.
- Links easily to process controllers and computers
- Long term operation with minimal maintenance

Superior to Alternative Technologies

- A photolysis unit will also provide disinfection

- Compatible with sterilants including steam

Why is Hanovia the leading UV supplier?

- over 75 years
- Hanovia is the only UV systems manufacturer which also makes Medium Pressure Arc Tubes

Hanovia Systems are Compact & Easy to Install

- only connection to the electrical supply

Inexpensive and Simple to Maintain

- Distributors world-wide

Rigorous Quality Control (ISO 9001)

- Every system fully tested prior to despatch

All Hanovia systems Include:

- Arc Tube
- UV Monitor

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Automatic Wiper Mechanism (optional)

Validation and Certification

- UV monitor certificate

Ultraviolet Monitoring

UV Installation and Dose

