For many years, chlorine or bromine based chemicals have been the standard disinfectants used in swimming pool water treatment. However, studies have proven that the use of these chemicals can have public health consequences due to the formation of reaction byproducts, mainly chlorinated organic compounds and chloramines. Chloramines are responsible for eye, ear and throat irritation as well as the presence of a strong “chlorine” odour. Certain viruses, amoebae and cysts are also not inactivated at the chemical levels normally used for pool water treatment.

**OUR SOLUTIONS FOR YOUR NEEDS**

The addition of a Medium Pressure UV system has been proven as an effective solution to dramatically reduce the formation of reaction byproducts combined and is effective against viruses and micro-organisms not normally killed by chlorine based chemicals. Triogen can supply a wide range of UV systems suitable for private pool to Olympic pool installations combined with expert advice on their selection, system integration and end-user operation.

**UVARAY**

The “UVARAY” range of Medium Pressure UV systems have been specifically designed for swimming pool installations. These systems incorporate the use of broad spectrum medium pressure UV lamps for the destruction of chloramines and organo-chlorine compounds.

The units incorporate the “Smartdrive” automatic thimble wiper system which is controlled via the Uvaray microprocessor control card.

The system also has a Low Power option that is time controlled allowing the unit to run at lower power during pool shutdown times thereby saving power and adding to the overall lamp life. These systems can easily be added to existing installations and are very user friendly.

Flowrates from 45 to 1000 m³/hour.

**UVASPA**

The “UVASPA” range of Medium Pressure UV systems are for use on small pools and commercial spas.

The systems have been designed as a cost effective solution for the treatment of commercial spas and hydrotherapy pools where the benefits of medium pressure UV system are required but at lower capital cost.

The units incorporate an innovative lamp and thimble design which allows the removal of bath as one assembly to allow periodic manual cleaning of the thimble.

The control panel utilises a microprocessor control system which allows remote indications as well as a remote Start-Stop facility for ease of use.

The units incorporate a Stainless Steel reactor body fitted with uPVC flanges for easy installation.

Flowrates from 15 to 75 m³/hour.
TREATMENT RESULTS AND PERFORMANCES

- Effective against E.Coli, Giardia and Cryptosporidium Parvum which are virtually unaffected by the use of chlorine alone.
- High proportions of combined chlorine products, chloramines, are destroyed.
- The advantage of Medium Pressure UV lamps is that their performance is not effected by higher temperature waters normally associated with pools and spas.

- UV radiation does not add anything to the water being treated nor does it generate any harmful by-products.
- UV only imparts energy in the form of ultraviolet radiation to accomplish the process of disinfection and photo-oxidation.

FOR ADDITIONAL INFORMATION

To obtain more information on our Leisure solutions for your application, you have several possibilities:

- Consult the equipment/process brochures included in our Degrémont Technologies Catalogue
- Go to our online Catalogue (www.degremont-technologies.com)
- Contact our Leisure specialists (www.triogen.com)

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