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 an ozone treatment system has been proven as the most effective solution to dramatically reduce the formation of reaction byproducts combined with ozone’s ability to kill the pathogenic micro-organisms which normal chemical treatment fails to deactivate. Triogen can supply a wide range of vacuum operated ozone generators suitable for private pool to Olympic pool installations combined with expert advice on their selection, system integration and end-user operation.

The “M” Range ozone generators have been specifically designed to operate at negative pressure thereby ensuring that an ozone gas leakage cannot occur within the generator which vastly increases the safety of on-site generation within areas or buildings used by the public. The generator contains all the equipment required for ozone generation including a dry air preparation system, ozone modules utilising the patented free-tube dielectric design for exceptional operational reliability, all electrical controls and optional output variation controlled via power variation. The cooling system can also operate with swimming pool water thereby avoiding the use of potable water. The generators range in outputs from 15 to 650 g/h.

The “Compact” Range of ozone generators and ancillaries are for use in smaller pool installations such hotels, clubs, spas and private pools where the normal bathing loads are lower than large commercial installations and therefore the ozone requirement is lower. The system operates at negative pressure for operational safety and the ozone generator incorporates a ceramic dielectric for long term reliability and resistance to operation with normal ambient air as the feed gas. Up to two standard generators can be used in conjunction with the optional automatic twin column heat regenerated air dryer which increases the ozone output. The generator(s) and air dryer system can be combined to give outputs of 2 to 8 g/h.
TREATMENT RESULTS AND PERFORMANCES

- The strongest disinfectant and oxidising agent available for pool water treatment.
- Effective against E.Coli, Cryptosporidium, Naegleria and Giardia cysts.
- Air recirculation systems can be used to full potential due to minimising the build up of nitro-organic and chloro-organic substances.
- Dramatically reduces chloramine levels. Improves water clarity due to flocculation effect.
- Removes colour components resulting in blue water effect.

FOUR 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)

M6 UVAZONE 150 UVAZONE 300 - 1500 SPAZONE 75

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