MIXER APPLICATION SHEET no. 5:

Ozonation of waste waters

Ozone is one of the most powerful oxidizing agents in nature. An application spreaded more and more is its use in waste water treatment, for instance for color removal in dye-works waste waters. Since Ozone production is very expensive, it is important to obtain the highest absorption efficiency.

The Pittaluga Static Mixer VP is the most efficient contact system to reach this target: a fantastic bubble generator, allowing, in a reduced space, an intensive contact between water and ozone. An average 90 to 99% of use physically allowable can be reached at the given operating temperature and pressure conditions.

Pittaluga Static Mixer main features:

- No moving parts
- Absolute total contact between whole water mass and ozone
- Generation of a very large mass transfer surface (hundreds to thousands of $m^2/m^3$) which can be determined in advance
- Minimum Pressure Drop: 2-3 mt. water column
- The VP mixer can be fed directly by the Ozone generator; without the need of an additional compressor.