



DR. B. PITTALUGA & C. s.r.l.

Via Ludovico Muratori, 18 – 24030 MOZZO (BG) - ITALIA

Fax (0039) 035/618710 - ☎ (0039) 035/466246

E-MAIL info@pittamix.it



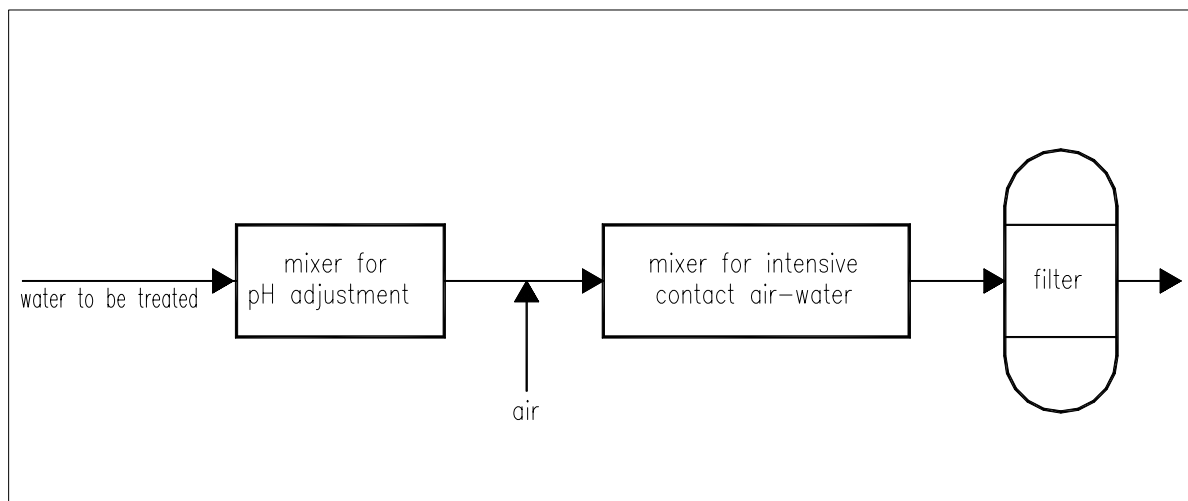
MIXER APPLICATION SHEET no. 2:

Iron and Manganese removal in drinking water

Many drinking water wells contain bivalent Iron and Manganese ions. Such ions need to be eliminated and the oxidation process is the most common way to change them into filterable compounds.

Oxidation can be obtained in different ways: through chemical processes, with compounds such as Potassium Permanganate, or physical processes, which may foresee the simple use of air. In the latter case creation of a wide contact surface between the gaseous phase and air is necessary, in order to allow complete oxidation

The **Pittaluga Static Mixer VP** is a fantastic bubble generator, allowing, in a reduced space, optimum oxygen dissolution at the given operating pressure and temperature conditions. .



Pittaluga Static Mixer VP main features :

- ✓ No moving parts
- ✓ Absolute total contact between the whole water mass and air
- ✓ Generation of a very large mass transfer surface (hundreds to thousands m^2/m^3), which can be determined in advance
- ✓ Minimum pressure drop : a few meters of water column
- ✓ Excellent mixing performance even in wide throughput ranges
- ✓ Made of either stainless or carbon steel and different plastic materials