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SansOx Ltd patented an aeration solution for water-treatment cluster

New device, the OxTube, aerates quickly and mixes efficiently.

Finnish company SansOx has developed and patented an aeration device for water-treatment processes. With this specific device the oxygen levels can be raised quickly and at the same time the liquid flowing through the device is mixed efficiently. The solution is applicable to drinking water, industrial water, fishery water, and mining industry process water treatment.

The principle of the solution is to try to influence the factors that affect diffusion. This is the process of oxygen transferring from gas-phase to liquid-phase. These factors, among others, are to increase the surface area between the phases and mixing.

The OxTube may be fitted to enhance existing water treatment processes. The device can improve the processes by removing iron, manganese and dissolved hazardous gases such as carbon dioxide and hydrogen sulphide and other volatile organic compounds (voc).

On the other hand, the OxTube can be used to add gases like oxygen and carbon-dioxide to adjust the pH-value and other factors. The device is also applicable for adding liquid chemicals and mixing them effectively.



"We are bringing a new solution to the water treatment market, which we are currently testing at the Process Technology Laboratory of Oulu University and at Kuopio Savonia University of Applied Sciences. We believe that our solutions will enhance the process of treating water and offers fast and effective aeration without large investments" described Mikael Seppälä, CEO of SansOx Oy. The results of our device will be introduced at the end of summer 2014.

"We are offering new types of solutions, which will offer an alternative for the old process models", Seppälä continues, "everybody wins when the aeration processes will become more effective."

Their main product is SansOx OxTube. They are seeking partners to distribute OxTube to different applications.

SansOx Ltd is a cleantech-company founded in 2012. They are researching and developing sustainable water treatment methods for water supply, industry, agriculture and fishery, mining industry, and for water systems enhancements to protect the environment.