

Tsurumi's TRN aerators pump up demand

Tsurumi Europe, one of the first manufacturers to create aerators specifically designed for wastewater treatment and tested in accordance with directive EN12255-15, has seen a 25% increase in its submersible aeration business since the launch of its TRN series a year ago.

In addition, the Spanish dealer for Tsurumi, Hydreutes, S.A., recently sold its 2,000th aerator making it Tsurumi Europe's most successful dealership and reinforcing the aerator's ability to maximise business potential.

Carsten Bode, product manager at Tsurumi Europe, explains what lies behind the growing popularity of Tsurumi's aerators:

"Submersible aerators are great value, easy to install and simple to maintain. They provide a huge benefit to smaller and municipal wastewater treatment plants with tighter budgets. Such plants are found mostly in Eastern Europe, where we have seen the biggest increase in business. Larger treatment plants have also seen the benefits of the TRN series and use them to fulfil temporary increases in treatment requirements."

Submersible vs. Membrane

When compared to membrane aerators, there are three clear advantages that submersible aerators offer. Firstly, installation is significantly cheaper. Secondly, there is no lengthy preparation; the aerators can simply be lowered into any basin and do not require a compressor. Finally, the technology requires almost no maintenance as there are no membrane pores which could get clogged or blocked, avoiding expensive repairs and prolonged interruptions.

Russia and Eastern European countries are showing the greatest demand for submersible aerators. Russian mine operators, for example, have always needed robust technology to enable them to operate in all conditions, and the TRN range fits that requirement. Further afield, Tsurumi has also delivered its rugged submersible aerators for use in mobile container treatment plants in Africa.

Application

The applications for submersible aerators are vast. In sewage treatment works they are often used in classical activated sludge basins, while in industrial biological pre-treatment plants the use of aerators is also common.

Mr Georg Bacs, Environmental Specialist from Gauting, near Munich, describes a typical application:

"If fresh water becomes unbalanced through increasing algae development, a submersible aerator can help to solve the problem of eutrophication (massive algae growth) by bringing in oxygen, which small drifting animals need to increase their population and to consume the algae. Small and mobile installations usually require aerators with up to 7.5kW of power. For stationary installations, up to 40kW is available. This enables air input to reach 600m³ per hour per machine."

The TRN series is Tsurumi's most advanced. In contrast to other submersible aerators on the market it offers patented oil filter technology, an extra large oil chamber and the new Air-Seal-Principle, which ensures that the double mechanical seal never comes into contact with the water during operation. This ensures increased wear and expensive repairs are avoided.

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