



water solutions

Power and efficiency with Zenit Oxytube tubular air diffusers

WASTEWATER TREATMENT PLANT FOR THE NIP CONSORTIUM

The all-stainless steel air distribution system was designed to be simply rested on the bottom of the tank and connected to the main air intake pipe by means of flanged mounting pipes: this means the pipelines can easily be extracted even with the tank full and in operation. Maintenance can therefore be performed without having to stop the system and drain the tank, avoiding lengthy, expensive procedures.

This solution met all the customer's requirements in terms of reliability, energy efficiency and trouble-free maintenance. But what about the overhead power line passing over the tank?

To allow the newly installed Zenit aeration system to be extracted without interfering with the high voltage line, and in compliance with safety distances, our engineers subdivided the mounting pipe into three sections of suitable length. This allowed the pipelines to be maintained and dismantled in complete safety by simply connecting and disconnecting the steel pipe systems mechanically via a custom-built system of lifting brackets and anchor bolts, all in perfect safety and the correct distance from the high voltage line.

Benefits

On completion of the works, the plant comprised a modern aeration system incorporating Zenit Oxytube tubular air diffusers with oxygen transfer efficiency values in line with the best technologies available on the market. The entire system was configured to be extractable, allowing continuous operation over time with no need to stop the plant for maintenance.

Today, wastewater mixing and oxygenation are optimal, energy costs are low and maintenance is performed without emptying the tank and at a safe distance from the electrical power line. All the Consortium's requirements have been met, to the great satisfaction of the operator and our engineers



Customer	Consortium for the Industrialization Unit of the Province of Pordenone				
Company Profile	Industrial plant manager				
Location	Meduno (PD)	Country	Italy	Area	Europe
Application	Industrial wastewater treatment				
Installed Products	OXY Tube Air diffusers				
Date	July, 2017				