

Reference OTT Aeration system HE®: WASTE WATER TREATMENT PLANT OF WILHELMSHAVEN



At the waste water treatment plant of Wilhelmshaven OTT MAGNUM® 2000 diffusers had been installed in rectangular tanks (17 x 15 x 5,5 m). With an upcoming re-

placement of the membrane tubes there has been carried out an **energy check** as an alternative to an 1 : 1 exchange of the membranes.



Waste water treatment plant of Wilhelmshaven during the rebuilding. The existing distribution grids are lifted by an automobile crane, rebuilt ashore in order to fix additional OTT System diffuser elements, newly equipped and replaced into the tank. The specialist staff of the waste water treatment plant reduced the mounting costs, by proportionate in-house performance when rebuilding. The company OTT System accompanies the works coordinating.

With the assistance of the Hanoverian consulting engineers Aquaconsult, which have been in charge of the waste water treatment plant of Wilhelmshaven for years, and with the company Ott System, it could be found out that the energy costs can be saved considerably with an overhaul of the existing aeration system. Investing in this overhaul measure should pay for itself rapidly by the saved energy costs.

As a special agreement between the operator and Ott System a performance and saving guarantee was fixed within the contract. So, the operator got a commercial and legal definite undertaking by Ott System that the energy optimization will pay off. As the plant consists of two lines, one agreed on two separate sections – which made possible an exact performance comparison.



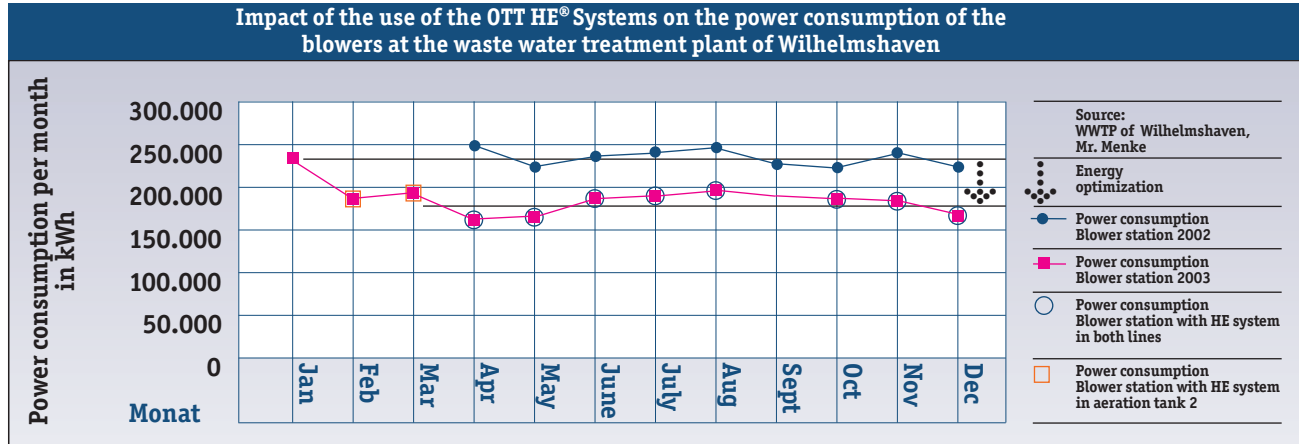
The grids equipped with OTT System MAGNUM 2000 FLEXSIL HE® diffusers are ready to be re-installed.



The bubble pattern is extremely fine and uniform after the rebuilding of the first line – a token of high-quality and efficient membrane diffusers.

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OTT aeration system HE®

The OTT aeration system HE® (highly efficient) guarantees a very high utilization of oxygen. With high-capacity

membranes of the type FLEXSIL® HE® as well as by a carefully chosen layout of the aeration equipment a very high efficiency [kgO₂/kWh] is achieved.

The OTT aeration system HE® has many advantages for the customer:

- + Extremely good efficiency
- + Considerable savings of electricity costs
- + Saved resources serve for example for a complete financing (KfW credit, Leasing)
- + Established aeration system – proven and tested components for many years
- + Long guarantee period and high-quality installation
- + Full process engineering safety plus considerable capacity reserves

- + Quick installation – if required, also possible during running operation
- + Reliability by 18 years of experience in municipal and industrial plants
- + Independent performance expert's opinion of different institutes and more than 20 reference plants
- + Consultancy, conception, production, delivery and installation from one and the same partner
- + In-house performance and integration of consisting components are possible
- + No personnel binding, no conversion of the process engineering necessary

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Member of
German Water Partnership