

# Oxygen Transfer Technology

Efficiency by Design



**OTT GROUP**



**AirRex<sup>®</sup> piping system**

## **AirRex®: functionality, durability, cost effectiveness**

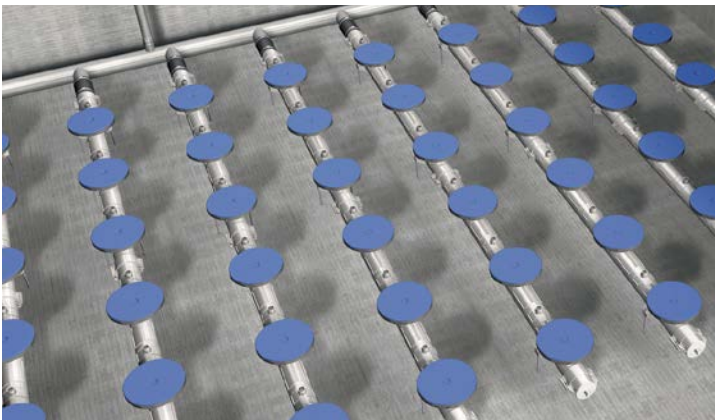


**AirRex®** is the first injection molded plastic piping assembly designed expressly for aeration service. It is available as a kit.

The modular concept in combination with the revolutionary, patent-pending, connection and the specially designed supports allow fast installations at low costs.



**AirRex®** can be retrofitted into basins equipped with fine bubble aeration to increase efficiency and yield a reasonable payback as well as older, coarse bubble installations. New installations will be the lowest cost high efficiency diffuser system available.



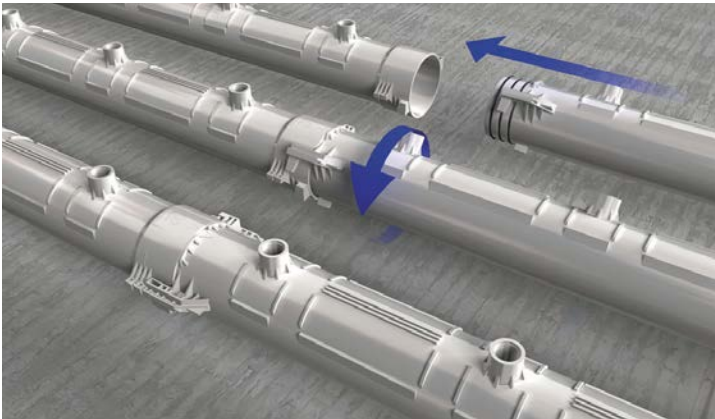
The **AirRex®** piping system is equipped with a BSP female thread.

The OTT **MAGNUM®** tube and the OTT **D-REX®** disc diffuser as well as disc diffusers from other manufacturers can be easily mounted on the **AirRex®** piping system by using adapters.

### **The Advantages**

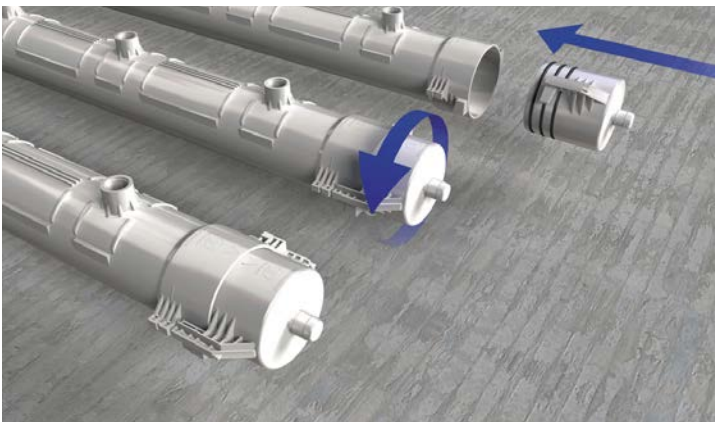
- + reduced design costs through standardized modules with standardized efficiencies
- + fastest installation times due to the revolutionary connection concept and **MAGNUM®** mount
- + the prefabricated connectors every 30 cm gain high flexibility and fast expansion opportunities
- + highest efficiency per installed unit area of diffuser because of the use of the **MAGNUM®** diffuser

## **AirRex®: easiest to design and to install aeration systems**



With only 3 different elements, **AirRex®** can be combined in lengths of about 1.8 meters (6 ft) for any basin configuration.

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The **AirRex®** piping system is the first choice for operators, OEMs and engineers that demand high efficiency and quality at a lower cost than stainless steel piping.

**AirRex®** systems rival the efficiency of strip or panel diffusers at a cost of lower density disc systems.

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The **AirRex®** transition unit is available in DN 50-100 (2"-4"). This allows an easy integration in existing piping systems.

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### **The Advantages**

- + no pipewelding, coupling or adhesives required during installation
- + designed to allow thermal expansion without expansions joints
- + can be connected to any existing piping system
- + all components are recyclable and free of PVC

## OTT's AirRex® piping system and MAGNUM® tube diffusers: The next level aeration technology



AirRex® piping system with MAGNUM® tube diffusers  
in a circular tank in Northern Germany



AirRex® piping system with MAGNUM® tube diffusers  
in a SBR tank in Montenegro.



Member of  
**German Water  
Partnership**

[www.airrex.info](http://www.airrex.info)



**OTT GROUP**

## Sustainability through efficiency

**Our products facilitate greater sustainability in biological wastewater treatment. As a company, we are committed to conducting our operations as sustainably as possible.**

**Since our establishment in 1986, all our products have proudly carried the “Made in Germany” label, ensuring they are manufactured under stringent social and environmental standards.**

From the mid-1990s onwards, numerous wastewater treatment plants have significantly reduced energy consumption by implementing our highly efficient OTT diffuser systems.

Independent studies conducted by leading institutions validate the decision of these plants to adopt our products. They not only enable sustainable energy savings but also ensure long-lasting, low-maintenance and efficient operations.

Furthermore, our plant refreshment programme, initiated in 2013, allows for the reconditioning of used membrane diffusers. We meticulously clean the carriers at our facilities, assess their condition and install new membranes and seals.

Each factory-refurbished diffuser undergoes rigorous quality and pressure loss inspections, obtaining documented QA approval before being packaged for delivery. This refurbishment process not only saves time and money at the plant but also proves more cost-effective than purchasing new

membrane diffusers. Additionally, recycling the carriers prevents waste and reduces carbon emissions.

Our upcoming OTT recycling programme is set to further decrease carbon emissions:

We recycle used carriers on-site and manufacture new diffusers from the material, fostering a closed-loop system that significantly diminishes waste, raw material usage, and the carbon footprint of OTT products.

Renowned for their efficiency, cost-effectiveness, performance and durability, our products and plant designs remain at the forefront of the industry.

We invite you to visit us for a plant audit or join us on our website as we strive to achieve 100% sustainability.

Challenge us, and let us help you realise your projects and sustainability objectives.

## Carbon footprint

Do please get in touch with us, so that we can work together to reduce the energy consumption and carbon footprint of your diffuser system. For more detailed insights into the measures implemented by the OTT Group, have a look at our Sustainability Report.



**TRANSPARANCY  
EFFICIENCY  
REDUCTION**



Member of  
**German Water  
Partnership**

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