

# AEROSTRIP SYSTEMS

by  AQUA  
CONSULT

## KEY FEATURES & BENEFITS

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- Standard oxygen transfer up to 60% at 20 ft SWD
- Proven service life of more than 15 years
- More than 20:1 turndown ratio (0.3 – 7.0 scfm/ft<sup>2</sup>)
- Cost effective wastewater treatment

## HOW WE CREATE VALUE

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- Energy savings pay back your investment in 2-10 years
- Nitrogen removal enhanced due to the ability of AEROSTRIP diffusers to provide oxygen over a wide range of process loading
- Designs provided by Aquaconsult industry-leading biological process team



## WHY ARE AEROSTRIP DIFFUSER SO EFFICIENT?

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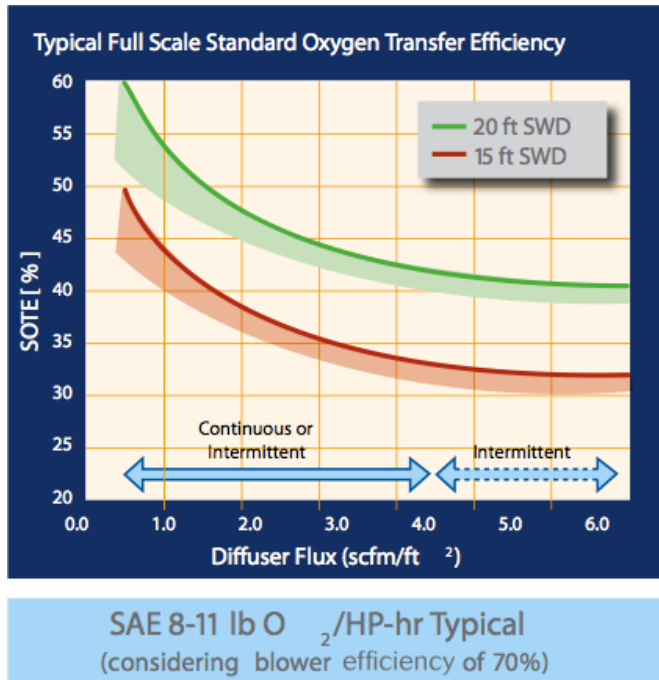
Because size matters! – small bubbles have a large surface area per volume of air available for oxygen transfer. The larger surface area and the excellent distribution improve oxygen transfer compared to all other diffusers. Lower air rates are thus required for the same amount of oxygen transferred. The manufacturing process allows high transfer rates to be maintained over a wide range of flux rates in actual waste water. This results in energy saving efficiency as your plant responds to diurnal, seasonal, and start-up loads.

## DOES THE EFFICIENCY DECREASE WITH TIME?

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Oxygen transfer tests after 4,5, and 8 years proves that transfer efficiency remains practically unchanged. From the tests it can be concluded that with proper care and maintenance you should expect the reduction in oxygen transfer to be no more than 5% after 8 years.

## WHY DO THE AEROSTRIP DIFFUSERS HAVE THESE OUTSTANDING PROPERTIES?

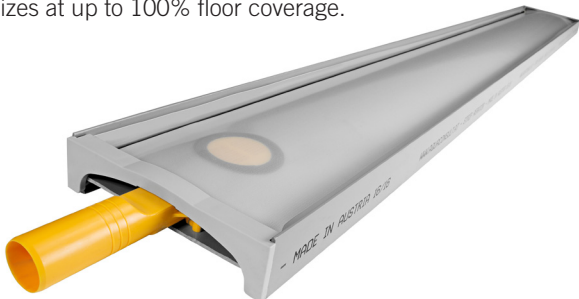


## MATERIAL

The membrane of AEROSTRIP diffusers is made of polyurethane and contains no softeners. The membrane is thus more stable and its mechanical properties change very slowly. The mechanical stability of polyurethane membranes is superior to the stability of EPDM and silicone based membranes.

## SHAPE

The strip shape allows installation in any tank geometry and sizes at up to 100% floor coverage.



## HOW ABOUT AEROSTRIP DIFFUSER INSTALLATION?

AEROSTRIP diffusers can be mounted directly on the tank floor therefore eliminating the accumulation of deposits and maximizing process volume and oxygen transfer.

Simple support plates are used for tanks with sloped or uneven bottoms to adjust the AEROSTRIP diffusers to a common level.

The AEROSTRIP diffuser is available in different lengths to accommodate various layouts.

The design of the air distribution system allows particular site requirements to be engineered in accordance with project



## RESEARCH & DEVELOPMENT

Aquaconsults's commitment to R&D and their experience with aeration will ensure a successful outcome for their customers.

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