



# Greater energy savings are in the air

COMPLETE AERATION SYSTEMS FROM A SINGLE, RELIABLE PARTNER



# Cut daily energy usage

**Four out of every 10 bubbles that rise to the surface of your aeration system is costing you too much. To slash rising energy costs, take a closer look at the energy efficiency of your aeration systems, which is one of the highest cost-saving areas for wastewater treatment plants today.**

We can help you select the most appropriate aeration system for your needs and cut daily aeration energy consumption by up to 40%. This translates into improved plant performance, increased capacity, lower overall total cost of ownership and, ultimately, a better bottom line.

## **One-stop shop for all your aeration needs**

Substantially reducing the power required to transfer oxygen efficiently requires expertise. We understand how different operating strategies and equipment selection affect energy consumption and costs. So we can determine where additional operational efficiencies can be realized.

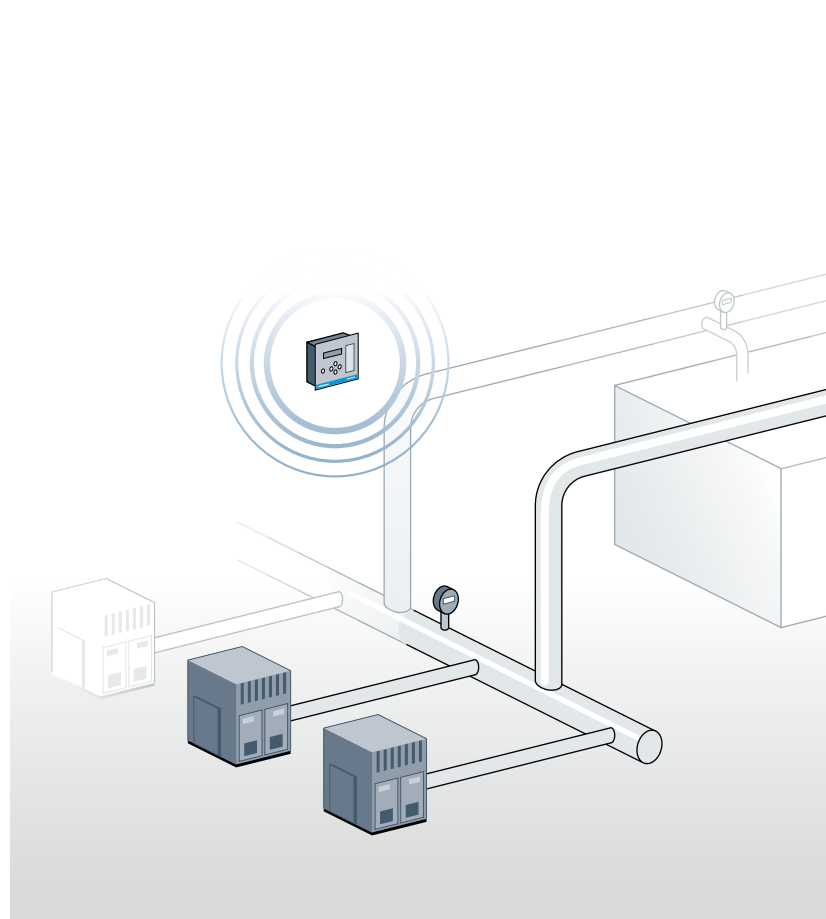
You can rely on us as your single source for all your aeration needs. We work closely with you to optimize your entire aeration process.

## **Our comprehensive aeration solutions**

- Sanitaire fine and coarse bubble diffusers, including diffuser holders, grid components, pipes, droplegs and supports
- Flygt jet aerators
- Flygt monitoring and control systems
- Blowers

## **Blower control**

## **Pressure control**



**We combine products, services and expertise to identify the best aeration solutions, tailor-made to your requirements.**

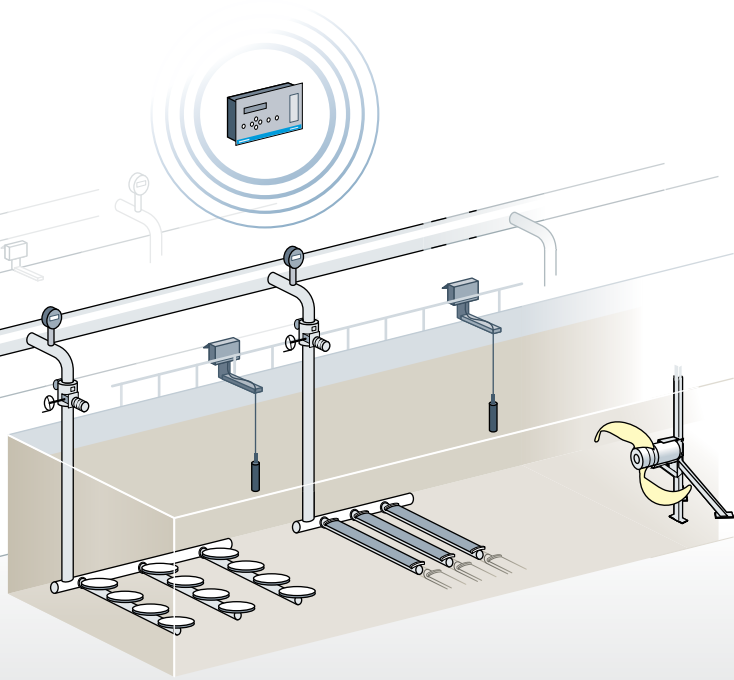
Energy-efficient blowers provide optimal air supply.

20 million Sanitaire membranes and ceramic discs are in use worldwide.

# by 40%

## Air flow control

## Dissolved oxygen control



To optimize your process, we design, deliver, commission and, through control systems, support the operation and maintenance of your aeration system - from blowers to diffusers.

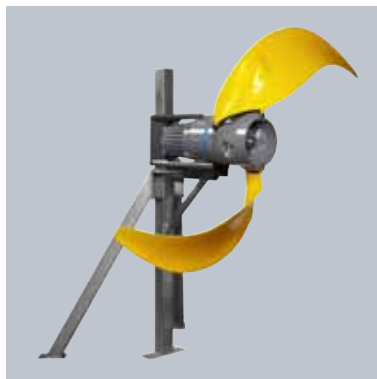
## More oxygen delivered per kilowatt hour

We go to great depths to make sure your aeration system has the best standard aeration efficiency (SAE) possible. The higher the SAE, the higher the oxygen transfer, the higher the efficiency of your system - while using the lowest possible amount of energy.

We consider the impact that various factors, such as liquid depth, density of diffusers and piping system, have on energy consumption. We then use system temperature and pressure calculations and use computational fluids dynamics (CFD) software to simulate aeration system design.

### Extensive systems engineering

Our competence in systems engineering runs deep. We can assist you every step of the way - from developing mixing and aeration specifications to control strategy. Through aeration system design analysis, we are able to achieve the highest possible oxygen transfer while using the least possible amount of energy.



### Comprehensive system design capabilities

- System simulation utilizing CFD
- Aeration design and analysis software
- System temperature and pressure calculation
- Advisory services
- System design assistance
- System specification assistance
- Oxygen transfer testing
- Model testing

20,000 Flygt low speed mixers are maximizing aeration efficiency all over the world.

Flygt monitoring and control systems give you total control and total peace of mind.

**Count on us to achieve the highest possible oxygen transfer using the lowest possible amount of energy.**

# Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're 12,000 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to [www.xyleminc.com](http://www.xyleminc.com)



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