



Successful Replacement of Low-Speed Surface Aerators with FUCHS OxyStar® Aerators

The WHA Saraburi Industrial Land (WHA SIL) in Thailand has its own Central Waste Water Treatment Plant with a designed capacity of 15.000 m³/d after design modification in 2014). The plant includes two parallel equalization basins. In 1991 both basins were equipped with low-speed surface aerators.

The client had issues with sediment solids in several areas at the bottom floor of the basins, especially at the corners of the basins.

Technical Data

Design capacity:	15,000	m ³ /d
BOD ₅ concentration (actual):	10	mg BOD ₅ /l
TSS concentration:	71	mg BOD ₅ /l

Previous aeration equipment of two tanks

4 pcs Low speed surface aerator: 7.5 kW (each)



Low-speed surface aerators before replacement (left) and new OxyStar® Aerators during installation (right)!

Tank dimensions:

Water level:	3,5 m
Length:	40 m
Width:	20 m
# Tanks:	2

Finally, FUCHS OxyStar® Aerators were chosen. Apart from combining excellent aeration and mixing with a sturdy design OxyStar® Aerators also offer easy installation. This is a valued aspect for retrofits.

After installing two sets of FUCHS OxyStar® Aerators (10 hp / 7.5 kW each) in 2020 and 2021, the customer is very appreciative and planning to also use FUCHS OxyStar® Aerators in future expansion.



FUCHS OxyStar® Aerators are available in various sizes. They can be mounted on a bridge, wall or floats. Due to their sturdy design OxyStar® Aerators are highly reliable and almost maintenance-free.

Advantages of FUCHS OxyStar Aerators at a glance

- Efficient aeration
- High mixing and circulation capability and flexibility
- Outstanding quality of material and production
- Almost maintenance-free (no lubricating or greasing required)
- Versatile and simple modes of installation
- Endling and installation due to low weight
- No spray water
- Low noise emission

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