

## Autoheated Thermophilic Aerobic Digestion FUCHS ATAD featuring CENTROX Aerator USA



**A**utothermal **T**hermophilic **A**erobic **D**igestion (ATAD) is a technology widely applied in Europe, the USA and elsewhere.

In July 2022 a new FUCHS ATAD was started up in the USA. This ATAD is following FUCHS' latest design (ATAD AIC™), featuring not only an improved heat balance combined with enhanced oxygenation but also favourable dewatering. Finally, photo-catalytic odour control (producer: Neutralox, Germany) contributes to a healthy environment.

On top the FUCHS CENTROX Aerator is a customer- and service-friendly equipment, combining aeration, mixing and foam control in only one machine.

### **Technical details**

The ATAD is designed for a sludge load of about 2,800 kg DS/d. The process scheme mainly comprises drum screen, sand trap, EQ tanks, oxidation ditches for nitrification/denitrification, settling tanks, disc filter and effluent disinfection.

The sludge treatment line consists of drum thickener, pre-storage tank, two ATAD reactors, post-storage tank and off-gas treatment.

Loading of the wastewater treatment plant increased over the time. So, the wwtp had to be upgraded by new oxidation ditches.

Because of the good experience with the existing Fuchs ATAD the customer decided to expand the sludge treatment line with Fuchs. We took the chance to incorporate our newest design approaches and latest equipment.

After start-up the ATAD is running to the full satisfaction of the customer. It produces reliably Class A biosolids without getting odors.

The FUCHS ATAD AIC™ in combination with the FUCHS CENTROX Aerator offers several benefits:

- simultaneous stabilization and disinfection (Class A biosolids)
- meets or exceeds international biosolids standards
- short retention time (~9 days)
- low investment cost
- excellent process stability and reliability
- easy extension of capacity
- flexible and sturdy operation
- excellent odor treatment
- high degradation rates
- reliable CENTROX Aerators, proved at many installations
- low maintenance Aerators



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