



AquaNereda®

Aerobic Granular Sludge Rental System



AQUA-AEROBIC SYSTEMS, INC.
A Metawater Company

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The AquaNereda® Aerobic Granular Sludge Technology is an innovative biological wastewater treatment system that provides advanced treatment using the unique features of aerobic granular biomass. The aerobic granular biomass is comprised of compact granules which consist of layered microbial communities and provides superior settling compared to conventional activated sludge. Within a single tank, the process creates proper conditions to develop and reliably maintain a stable granule population without the need for a supplemental carrier. The layered aerobic and anaerobic zones within the granule allow for simultaneous processes to take place in the granular biomass, including enhanced biological phosphorus reduction and simultaneous nitrification and denitrification.

The AquaNereda technology translates into a flexible and compact process that offers energy efficiency and significantly lower chemical consumption culminating in a low life-cycle cost. Compared to conventional activated sludge (CAS) systems, this advanced nutrient removal process can reduce footprint up to 75% and energy use up to 50%.

The AquaNereda Aerobic Granular Sludge Rental System has a nominal 80,000 gpd capacity and includes buffer tanks, influent pump/strainer skid, reactor and blower skid with a fine bubble diffused aeration system.

Features and Advantages

- Full-scale AquaNereda® Aerobic Granular Sludge System
- System utilizes true microbial biomass in the form of aerobic granules
- Advanced biological treatment meeting high quality secondary effluent
- Automatic controls, remote process monitoring and operation

Applications

- Temporary Treatment During:
 - Construction
 - Expansion
 - Upgrades
- Emergency Treatment
- Immediate Capacity Increase
- Meeting Regulatory Limits Sooner



Granule sample following sieve testing at the AquaNereda® demonstration facility, Rockford, IL

Technology Rental System Services

- Services of an experienced Aqua-Aerobic rental unit technician to assist as needed, including:
 - Supervised placement of the AquaNereda rental system and necessary hydraulic and electronic connections
 - Guidance on the process and mechanical operation of the unit for the duration of the rental
 - Training plant personnel on operation and maintenance of the rental unit
 - Decommissioning of the rental unit at completion of use
- 24/7 customer service during the rental period



Rental unit includes controls container and mechanical equipment skids

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