



**AQUA-AEROBIC SYSTEMS, INC.**  
A Metawater Company

## AquaNereda® AGS Rental Unit

Advanced secondary treatment in a quickly deployable package

### EQUIPMENT DESCRIPTION

The AquaNereda® AGS Rental Unit is an advanced biological treatment system capable of producing high quality secondary effluent from a screened and de-gritted influent source. An option to couple the system with a tertiary filtration unit utilizing AquaDisk® Pile Cloth Media Filtration is also available.

Common applications include:

- Temporary treatment during plant construction, expansion or upgrading
- Emergency treatment due to unforeseen circumstances i.e. natural disasters
- Low-impact method to quickly increase treatment capacity if current system is at capacity
- Quickly meet regulatory requirements sooner than building permanent infrastructure



### OPERATING & DESIGN INFORMATION

- Hydraulic Capacity      50,000-80,000 GPD
- Effluent Achievable      BOD 10 mg/l, TSS 15 mg/l, NH4-N 1 mg/l, TN <10 mg/l, TP 1 mg/l.

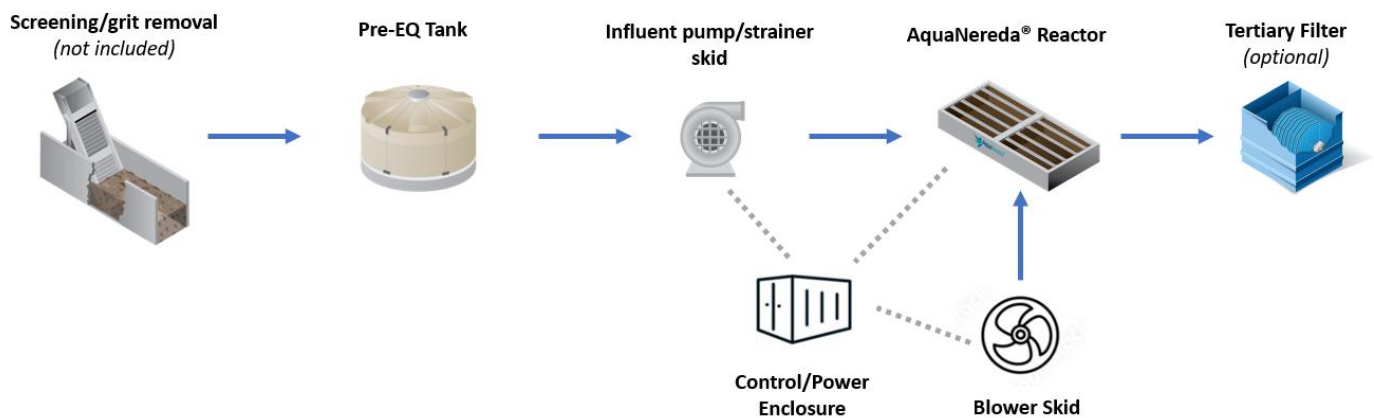
## MAJOR SCOPE BY OTHERS

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- Rental site location with:
  - Feed water, electrical power connection, chemicals, and blocking materials to level the Rental Unit.
  - Stable surface such as a concrete slab is required.
- Safety training as required for the plant facility, if necessary.
- List of required safety equipment for Aqua-Aerobic Technician, if necessary.
- Off-loading and placement of rental equipment.
- Crane for installing and uninstalling top of reactor column.
- Personnel to assist in installation of all piping connections, electrical power connection, and the disconnection/cleaning of the Rental Unit upon conclusion of the field testing.
- Freeze protection of the Rental Unit, if necessary.
- Personnel for day-to-day operation of the AquaNereda Rental Unit.
- Interconnecting piping between reactors, blowers, tanks and skids.

## PROCESS FLOW DIAGRAM (SIMPLIFIED)

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## MAJOR EQUIPMENT SUMMARY

Equipment	Function	Dimensions	Weight	Piping Connections	Electrical Connections
<b>AquaNereda® AGS Reactor</b>	Biological Treatment	13.5' x 17.5' x 24' H	38,000 lb (dry) 312,000 lb (operational)	6" Influent 6" Effluent 6" WAS/WLC 6" Drain 3" Aeration	-480V/60/3 -Multiple Analog -Modbus -Ethernet
<b>Feed Strainer / influent pump Skid</b>	Influent feed	6' x 7' x 4' H	2500 lb	2" Strainer Inlet 2" Strainer Outlet 4" Pump Inlet 4" Pump Outlet 1" Drain	-480V/60/3 -Analog
<b>Blower Skid</b>	Process Aeration	12' x 4' x 4' H	3000 lb	3" Outlet	-480V/60/3 -Digital
<b>Pre-EQ Tank</b>	Influent flow equalization during	15500 Gal Ø141 x 20.3' H	3400 lb (dry) 133,000 lb (operational)	2" Inlet 4" Outlet 4" Overflow 2" Drain	-480V/60/3 -Analog
<b>Controls &amp; Power Container</b>	HMI, PLC and power distribution	20' x 9' x 8.5' H	7500 lb		-480V/60/3 -Multiple Analog -Modbus -Ethernet -Digital

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