

*“Meet Your
NTU Limits”*

Membrane BioReactor **AEROBIC TREATMENT SYSTEM**

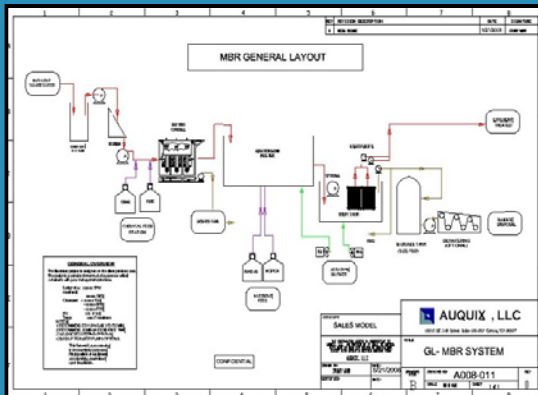
Membrane BioReactor (MBR).....Aerobic Treatment for Soluble Organics



In the **Membrane BioReactor (MBR)**, membranes may be directly immersed in the aeration tank or mounted adjacent to the aeration tank. By using a pump, a vacuum is applied to a header connected to the membranes. The vacuum draws the treated water through the membranes. Permeate is captured and sent for further disinfection or discharge. Turbulence of the fluid passing through the membrane helps scour the surface of the membrane. This scouring action transfers rejected solids away from the membrane surface.

MBR technology effectively overcomes the problems associated with poor settling of sludge in conventional activated sludge processes. **MBR** technology permits bioreactor operation with higher mixed liquor solids concentrations than conventional activated sludge systems that are limited by sludge settling. The benefit is higher mixed liquor solution concentrations which allow for effective removal of both soluble and particulate biodegradable material in the waste stream.

MANY INSTALLATIONS, BEST NTU RESULTS, WATER REUSE CAPACITY



Typical Installation

The **AUQUIX™** complete integrated MBR system package generally consist of an initial pre-screen, equalization/buffer tank, the MBBR vessel with dual aeration and vacuum pumps, nutrient feed station, dissolved air flotation unit and a flocculent feed station. The entire package is controlled with a state-of-the-art PLC with color touch-screen operator interface.

This flexible design feature allows for a small foot print at new installations or upgrades to existing systems. Consult your **AUQUIX™** Client Systems Engineer for your specific biological needs.



MBR Cartridge



MBR Basin



Very Low NTU

