Achieve Performance Requirements by Combining Surface Aeration with Diffused Aeration Systems

Aeration Industries International's Aire-O₂ Triton® can bring a struggling diffused aeration basin back up to optimal performance quickly by adding oxygen capacity and mixing.

**BENEFITS OF COMBINING AIRE-O₂ TRITON AERATORS AND DIFFUSED AIR SYSTEMS**

- Instant capacity (SOTR) increase without the need to interrupt production or drain the basin
- Increase aeration efficiency (SAE) with consistent aeration
- Keep solids in suspension with mixing-only option; when oxygen demand is low, Aire-O₂ Triton blowers can be turned off to save electricity. When demand is high, Tritons can be activated instantly
- Modular equipment allows for flexibility without making changes to infrastructure
- Aire-O₂ Triton offers consistent, reliable performance throughout the life of the aerator

**BY ADDING AIRE-O₂ TRITONS, YOU CAN**

- Eliminate need to shutdown/limit production
- No need to operate under low DO conditions
- Limit need for constructing additional infrastructure
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Image displays the Aire-O₂ Triton in operation providing mixing and aeration, as well as increasing bubble retention time from the diffuser grids and providing improved mixing through the water columns.

**BENEFITS OF MIXING OFFERED BY AIRE-O₂ TRITONS FOR A DIFFUSED AERATION SYSTEM**

- Instant increase in oxygen supplied to the system
- Increase in diffuser oxygen transfer efficiency (SOTE)*
- Re-suspend and eliminate settled sludge
- Reduce scaling/biofilm buildup by providing horizontal flow over the membrane

*dependent on basin configuration