



Aeration  
Industries®

## AIRE-O<sub>2</sub>® Combined Technologies (ACT®)

### The Right Mix To Boost Treatment

AIRE-O<sub>2</sub>® Combined Technologies (ACT®) are system technologies based on horizontal and vertical aeration capabilities that produce synergistic results. The key elements of an ACT system include Aeration Industries' proprietary process knowledge combined with the AIRE-O<sub>2</sub> TRITON® or aspirator aerator to provide high oxygenation capabilities with its strong horizontal flow velocities. The AIRE-O<sub>2</sub>® aspirator is combined with the AIRE-O<sub>2</sub> TURBO® direct drive surface vertical aerator or diffused air to form an ACT system.

### AIRE-O<sub>2</sub>® Combined Technologies (ACT®) Benefits:

- Horizontal mixing maximizes the efficiency of vertical aeration.
- Optimizes performance efficiencies of the treatment technologies.
- Results in interacting flows in the wastewater basin or lagoon which extends bubble hang time and contact with the water.
- Keeps solids in suspension, improving treatment efficiencies.
- Energy efficient, low capital investment, and small footprint.
- Ideal for retrofits/upgrades and for upgrades of existing low speed or high speed surface aerators for supplemental aeration.

AIRE-O<sub>2</sub> TRITON® aerators are available from 5 to 75 Hp (3.75-55.9 kW); AIRE-O<sub>2</sub>® aspirators from 2-100 Hp (1.5 to 75 kW); and AIRE-O<sub>2</sub> TURBO® aerators from 5-150 Hp (3.75-111.85 kW) in worldwide voltage, phase and Hz combinations.

**Markets served:** dairy, food processing, beverage & wine industries, chemical, petrochemical and refinery, pulp and paper, textile and other general industrial applications.



*The energy-efficient AIRE-O<sub>2</sub> TRITON® process aerator's dual mode feature combined with the AIRE-O<sub>2</sub> TURBO's.*

# AIRE-O<sub>2</sub><sup>®</sup> Combined Technologies (ACT<sup>®</sup>)



*Aerial view of interacting horizontal and vertical aerators.*

## AIRE-O<sub>2</sub><sup>®</sup> Combined Technologies (ACT<sup>®</sup>) Applications:

Treatment	TRITON	AIRE-O <sub>2</sub>	MICROFLOAT	TURBO
Pretreatment			X	
Primary			X	
Aerated Lagoons	X	X		X
Conventional	X	X		X
Extended Aeration	X	X		X
Nitrification	X	X		X
Denitrification	X			
Phosphorous	X	X		X
Post Aeration	X	X		X
Aerobic Digestion	X	X		X
Solids Concentration			X	
Cold weather	X	X	X	
Mixing Applications	X	X	X	
Aerosol Reduction	X	X	X	



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