



**Aeration  
Industries®**

# Aire-O<sub>2</sub> Microfloat DAF

## Dispersed Air Flotation

### Float FOG a Better Way!

Ideal for industrial applications, our Aire-O<sub>2</sub> Microfloat Dispersed Air Flotation System is an effective, affordable, and reliable physical/chemical pre-treatment technology with average removal efficiencies of 90% Fat, Oil and Grease (FOG), 60% Total Suspended Solids (TSS), and 30% Biochemical Oxygen Demand (BOD). Installed and operational costs are typically much lower than traditional Dissolved Air Flotation systems because there is less mechanical equipment.

The Aire-O<sub>2</sub> Microfloat unit has a specially designed non-clog spinning propeller disc that creates extremely fine micro bubbles (10-50 microns in diameter). Oil particles and suspended solids in the wastewater readily attach to the bubbles as they rise to the surface. The small bubble size results in very high removal efficiencies. Many applications do not require any chemical addition for superior treatment.

The Microfloat is manufactured by Aeration Industries International, a recognized global leader in wastewater treatment. The Company has installations throughout the United States and more than 92 countries around the world.

### Aire-O<sub>2</sub> Microfloat Benefits:

- Greatly reduces surcharges paid by industries discharging to local municipalities for disposal.
- Reduces maintenance and energy consumption.
- Requires no balancing of flow rates.
- Eliminates recycle pumps, compressors and attendant piping.
- Small bubble size can help to reduce chemical consumption.
- Complete standard circular systems and custom DAF retrofits available.

**Applications:** food preparation, tank & truck washing facilities, slaughterhouse operations, vegetable oil processing, meat & poultry processing, milk & dairy processing, petrochemical processing, and paper industry.



*Retrofits are quick and easy to existing tankage.*

# Aire-O<sub>2</sub> Microfloat DAF Dispersed Air Flotation

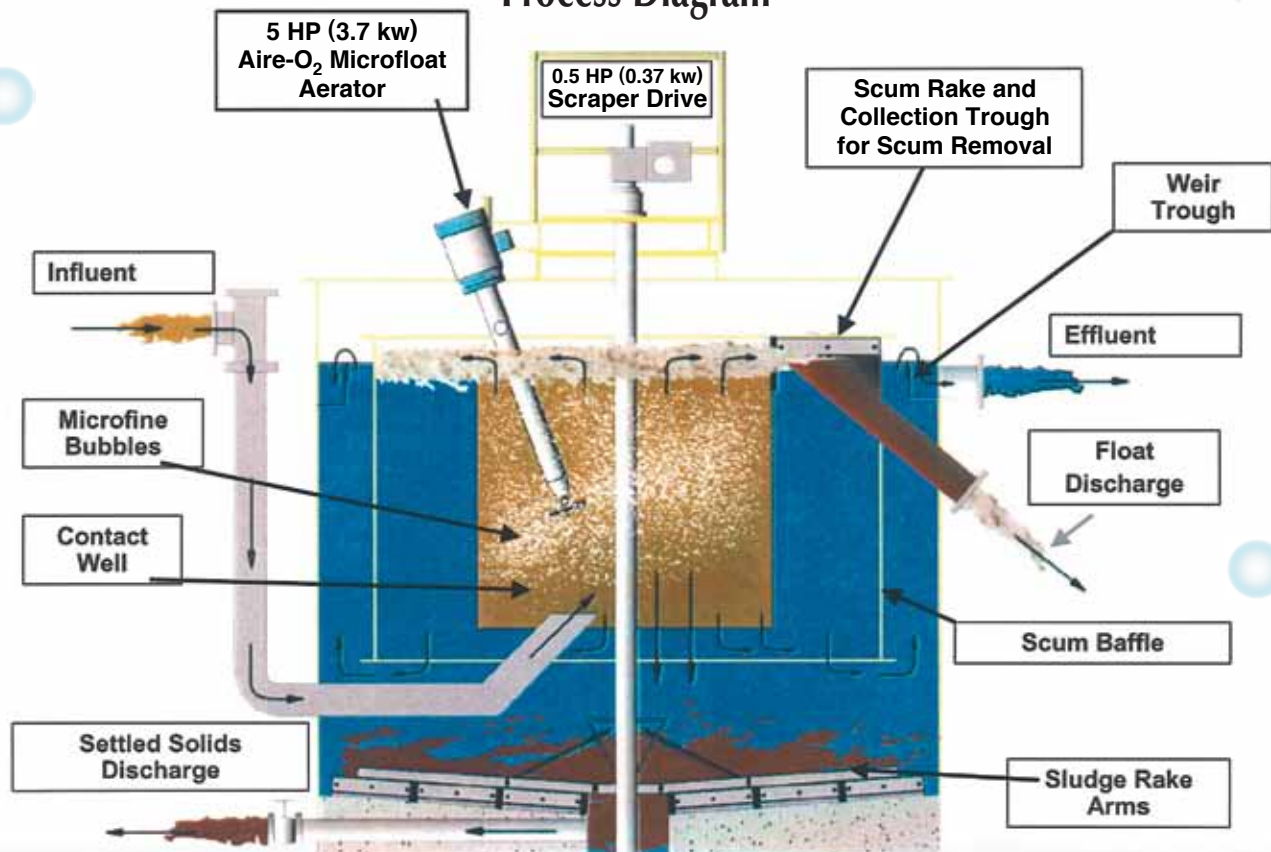
## Microfloat Standard System Sizing

Microfloat Size		Flow Capacity	
Diameter	Height	Average Flow gpm (m <sup>3</sup> /h)	Peak Flow gpm (m <sup>3</sup> /h)
9'-0" (2.74 m)	8'-6" (2.59 m)	55 (12.5)	110 (25.0)
10'-0" (3.05 m)	10'-0" (3.05 m)	83 (18.8)	166 (37.7)
12'-0" (3.66 m)	10'-0" (3.05 m)	120 (27.2)	240 (54.5)
14'-0" (4.27 m)	10'-0" (3.05 m)	163 (37.0)	326 (74.0)
16'-0" (4.88 m)	10'-0" (3.05 m)	213 (48.4)	426 (96.7)
20'-0" (6.10 m)*	12'-0" (3.66 m)	411 (93.3)	822 (186.6)

\* Use two (2) Microfloat aerators.



## Process Diagram



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MICRSpec1004-03