

## Aire-O<sub>2</sub><sup>®</sup> Microfloat DAF System



*Forget the traditional dissolved air solutions you are familiar with*

### **The Engineers at Aire-O<sub>2</sub><sup>®</sup> Offer Dispersed Air as a Superior Alternative**

Since 1982, Aire-O<sub>2</sub><sup>®</sup> has been installing their superior Dispersed Air Flotation technology around the globe. Ideal for industrial applications, our Aire-O<sub>2</sub><sup>®</sup> Microfloat System is an effective, affordable, and reliable physical/chemical pre-treatment technology for removing up to 90% free-floating FOG, 60% TSS, and 30% BOD\* - all at a much lower cost than traditional Dissolved Air Flotation (DAF) systems.

An elegant design that eliminates non-value added equipment like compressors, pumps, and recirculation equipment compared to traditional DAF solutions, the Aire-O<sub>2</sub><sup>®</sup> Microfloat System simply disperses the air using a high RPM, 2900RPM 50Hz and 3600RPM 60Hz, aspirator directly into the DAF tank. The DAF has a specially designed non-clog spinning disc diffuser that creates fine microbubbles (10-50 microns in diameter), allowing for high removal efficiencies. The complete Microfloat DAF system uses only two motors; the Microfloat aerator motor and the scum/rake drive. The Microfloat DAF system does not require an external recycle line.

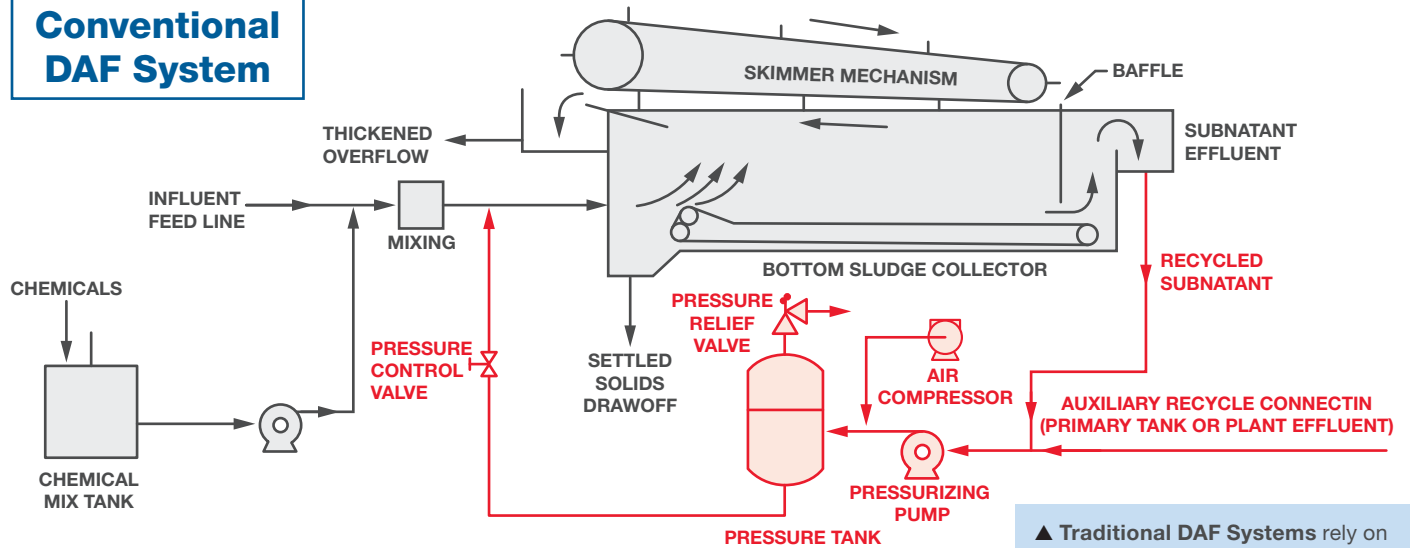
### **Why Choose the Aire-O<sub>2</sub><sup>®</sup> Series 275 Microfloat System**

- Eliminates recycle pumps, compressors, and attendant piping associated with traditional DAF equipment, to reduce install, maintenance, and replacement costs
- More reliable under a variety of conditions, the Aire-O<sub>2</sub><sup>®</sup> solution requires no balancing of flow rates
- New complete custom designs (with skimmers and tankage) or retrofits into existing tankage
- Specially designed non-clog spinning disc diffuser creates fine micro bubbles (10-50 microns in diameter) – smaller bubbles result in high removal efficiencies
- Backed by the Aire-O<sub>2</sub><sup>®</sup> legacy for reliability and ease of use



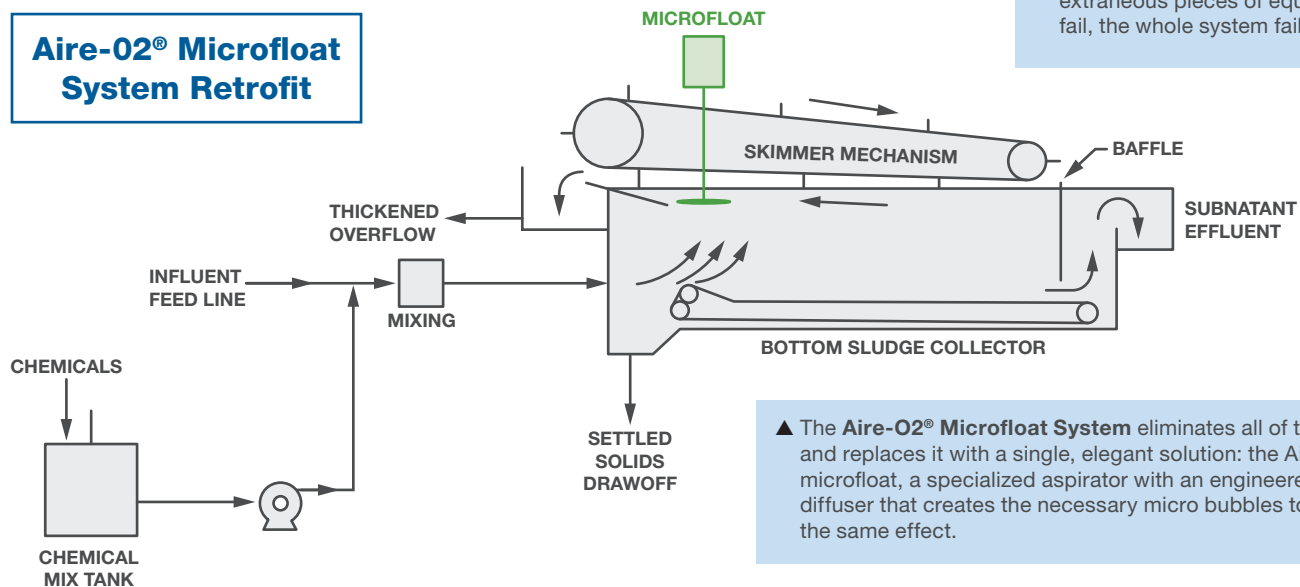
# Microfloat vs. Conventional DAF Systems

## Conventional DAF System



▲ Traditional DAF Systems rely on a compressor and pressurized tank to dissolve oxygen into water, along with a series of pumps and valves to support a recirculation system, to function. If any one of these extraneous pieces of equipment fail, the whole system fails.

## Aire-O2® Microfloat System Retrofit



▲ The Aire-O2® Microfloat System eliminates all of this risk, and replaces it with a single, elegant solution: the Aire-O2® microfloat, a specialized aspirator with an engineered disc diffuser that creates the necessary micro bubbles to achieve the same effect.

### Ideal for the Following Applications

- Food preparation
- Vegetable oil processing
- Slaughterhouse operations
- Milk and dairy processing
- Petrochemical processing
- Paper industry
- Sludge thickening for municipalities
- Tank and truck washing facilities