

Applications Water Treatment

- Turbidity Removal
- Filter Backwash
- Algae Removal
- Filter Backwash

Applications Wastewater Treatment

- OTR Tanker Wash
- Rail Car Tank Wash
- Meat Processing
- Dairy / Cheese
- Vegetable Processing
- Snack Foods
- Snack Bakery
- Refinery Units
- Groundwater Cleanup

Related Components for System Completion

- Oil Water Separator
- Flash Flocc Mixing
- Chemical Dosing
- De-Emulsification
- Metal Precipitation
- pH Control
- Main Control Panels
- Holding Tanks
- Transfer Pumps
- Sludge Pumps
- Bag Filters
- Multi-Media Filters
- Oil Sorbent Filters
- Effluent Instruments
- Effluent Recording
- Platforms and Stairs

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The DAFloat—Dissolved Air Flotation

The DAFloat high performance Dissolved Air Flotation system is capable of separating solids and oils from water/wastewater by attaching small microscopic air bubbles to the particles and floating them to the surface where they are removed from the water. The DAF uses the physics of gas dissolves into liquid when under pressure. As the pressure is released, the gas then “un-dissolves” and forms micro bubbles. Typical gases used are *air* for most water/wastewater applications, and *nitrogen* gas for highly flammable environments. As these bubbles are formed they are introduced to the specially designed DAF inlet reaction chamber where they are attached to the particles (oil, solids or floc). Dissolving of air/gas into the liquid is accomplished automatically and continuously by taking a portion of the cleaned DAF effluent and recycling it back to the DAF inlet. This is done after an atomization and pressurization step where the gas is dissolved into the water with a specially designed Saturated Recycle System (SRS) that operates under pressure to dissolve the gas.

APPLIED MECHANICAL TECHNOLOGY—A WORLD CLASS SUPPLIER

Applied Mechanical Technology is a *FULL SERVICE* supplier to the water/wastewater industry. We not only design and build the core technology of our systems and equipment but we also install, optimize, startup, train operators and service them too. If you need a simple oil water separator—or a complete industrial wastewater system we have the resources to help you!

Value by Design—High Performance and Low Cost

