

AJM[®] EnviroDAF[™] System

Dissolved Air Flotation



Features

Integrated Chemical Reaction-Tanks

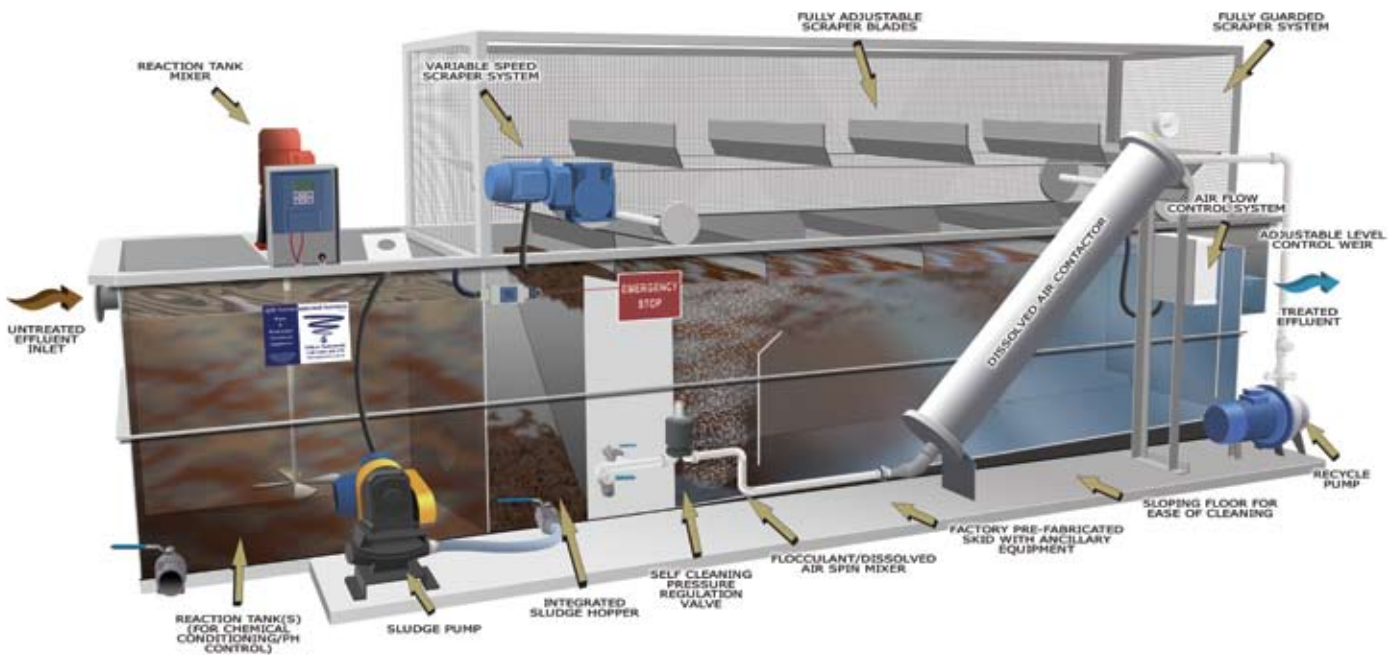
For upstream pH control or coagulation, the Eimco Water Technologies AJM® EnviroDAF™ system can be manufactured with any number of chemical reaction tanks. The reaction tank is fabricated in stainless steel with a retention time to suit each application. High quality mixers, pH controllers, dosing line connectors are all fitted as standard.

Unique Counter Current Scraping

The Eimco Water Technologies AJM EnviroDAF system features a unique Counter Current sludge removal system. This reversed profile has many advantages over Co-Current or circular systems by allowing a constant lift of air bubbles under the sludge blanket in the removal zone, resulting in vastly improved performance.

Heavy Duty Scrapers

The surface scraper is based on a six-sprocket guide system that ensures accurate tracking of the scraper blades over the beach. Extra heavy-duty roller chains, sprockets and drive motor/gear-box are designed for continuous duty.



Skid Mounted and Pretested

Eimco Water Technologies' DAF systems are usually supplied as skid mounted pretested units to simplify installation. A comprehensive range of accessories can also be integrated onto the skid during assembly such as sludge pumps and air compressors.

True Dissolved air process

Treated water from the base of the DAF is mixed with compressed air in Eimco Water Technologies' Dissolved Air Contactor. At the entry to the DAF, the pressure is released to ensure production of uniform size micro bubbles that are the key to optimising bubble attachment.

Bottom Sludge Removal

For ease of cleaning, Eimco Water Technologies DAF systems are designed with a sloping base to allow any settled solids to be drained. On larger DAF systems, our unique hopper bottom is a cost effective proven method of automatically removing solids.

If your industry is included in this list, it is likely that an AJM EnviroDAF system would be the most appropriate separation device for the treatment of your wastewater.

Abattoirs

Cheese Processing

Container Washing

Dairies

Food Processing—General

Fish Processing

Metal Removal

Meat Industry

Poultry Processing

Pulp & Paper

Small Goods

Tanneries

Vegetable Industry



- The AJM EnviroDAF system is unmatched in quality and performance.
- Hundreds of AJM EnviroDAF system installations worldwide.
- Capacities ranging from 1KL/hr to 400KL/hr fabricated as pre-assembled, pre-tested units.
- Experience in all industrial sectors including food, metals, paper, petrochemical.

Capacities and Sizes*

| Model | m ³ /hr | L | B | H |
|--------|--------------------|-------|------|------|
| 1200 | 4 | 2750 | 980 | 1050 |
| 2600 | 10 | 3300 | 1350 | 1050 |
| 3800 | 15 | 3650 | 1680 | 1050 |
| 4800 | 20 | 4350 | 1680 | 1050 |
| 7100LD | 25 | 4900 | 2180 | 1050 |
| 7100HD | 35 | 4900 | 2180 | 1350 |
| 11000 | 50 | 6750 | 2750 | 1350 |
| 15000 | 70 | 7400 | 2750 | 1350 |
| 19000 | 100 | 9300 | 2750 | 1350 |
| 24000 | 150 | 10500 | 3050 | 1650 |
| 38000 | 200 | 13000 | 3050 | 1650 |
| 45000 | 250 | 15500 | 3500 | 1650 |
| 60000 | 300 | 18000 | 4000 | 1650 |

*Dimensions and capacities are only a guide and are subject to change. Please confirm with your local Eimco Water Technologies representative prior to using the above.

Industries

Dissolved Air Flotation (DAF) is a clarification process for the separation of solids, grease and oils. It works by producing a stream of micro-fine air bubbles that attach to solids and float them to the surface where they can be removed by a surface scraping mechanism.

DAF is ideally suited to particles and flocs that are slow settling, neutral density or buoyant. This is particularly relevant to food and other industries where solids are light and voluminous and so not suited to settling. DAF also takes up considerably less space than settling methods, generally

less than 25% equivalent surface area needed.

For economies of size, sludge concentration and efficiency of separation of wide ranging solids densities, DAF is the most appropriate process to employ for many trade waste applications.

An AJM EnviroDAF system is just one of the integral separation systems that form part of a complete wastewater treatment plant. Generally the design also encompasses, collection wells, pumping systems, primary screening, chemical dosing systems, equalising tanks,

sludge dewatering, electrical control systems, instrumentation and secondary treatment methods.

We are specialists in the design and construction of complete treatment plants incorporating DAF and a wide range of other proprietary products.

Our AJM EnviroDAF systems are engineered to a high quality to suit each application. Most DAF systems are fabricated in stainless steel. Other materials can be used to suit unusual or highly corrosive environments.



Our extensive knowledge and understanding of the industrial processes that generate wastewater is critical to the successful implementation of Dissolved Air Flotation systems as a primary treatment stage.