

AJM EnviroDAF

Dissoved Air Flotation Dissolved Air Flotation



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AJM

Environmental Services Pty Ltd
Water & Wastewater Treatment Engineers



AJM EnviroDAF™ AJM EnviroDAF™

Founded in Sydney in the 1990's, AJM has rapidly become one of Australia's leading designers, suppliers and contractors of Wastewater Treatment systems.

AJM's foundations were built on the proprietors' extensive experience in designing and constructing industrial wastewater treatment plants. An integral component of AJM's initial success was based on the development of a broad range of high quality proprietary equipment. The **AJM EnviroDAF** is one such example of the many other AJM products commonly used in wastewater treatment operations.

The EnviroDAF is a high quality true dissolved air flotation system that produces a continuous uniform size of microbubbles to ensure unmatched performance.

Boasting many other features such as counter current scraping, stainless steel fabrication, non blocking dissolved air production mechanism and a range of bottom sludge removal facilities, the EnviroDAF leads the way in Dissolved Air Flotation technology.

"With many superior features and an extensive range of capacities, the EnviroDAF leads the way in World Dissolved Air Flotation Technology."





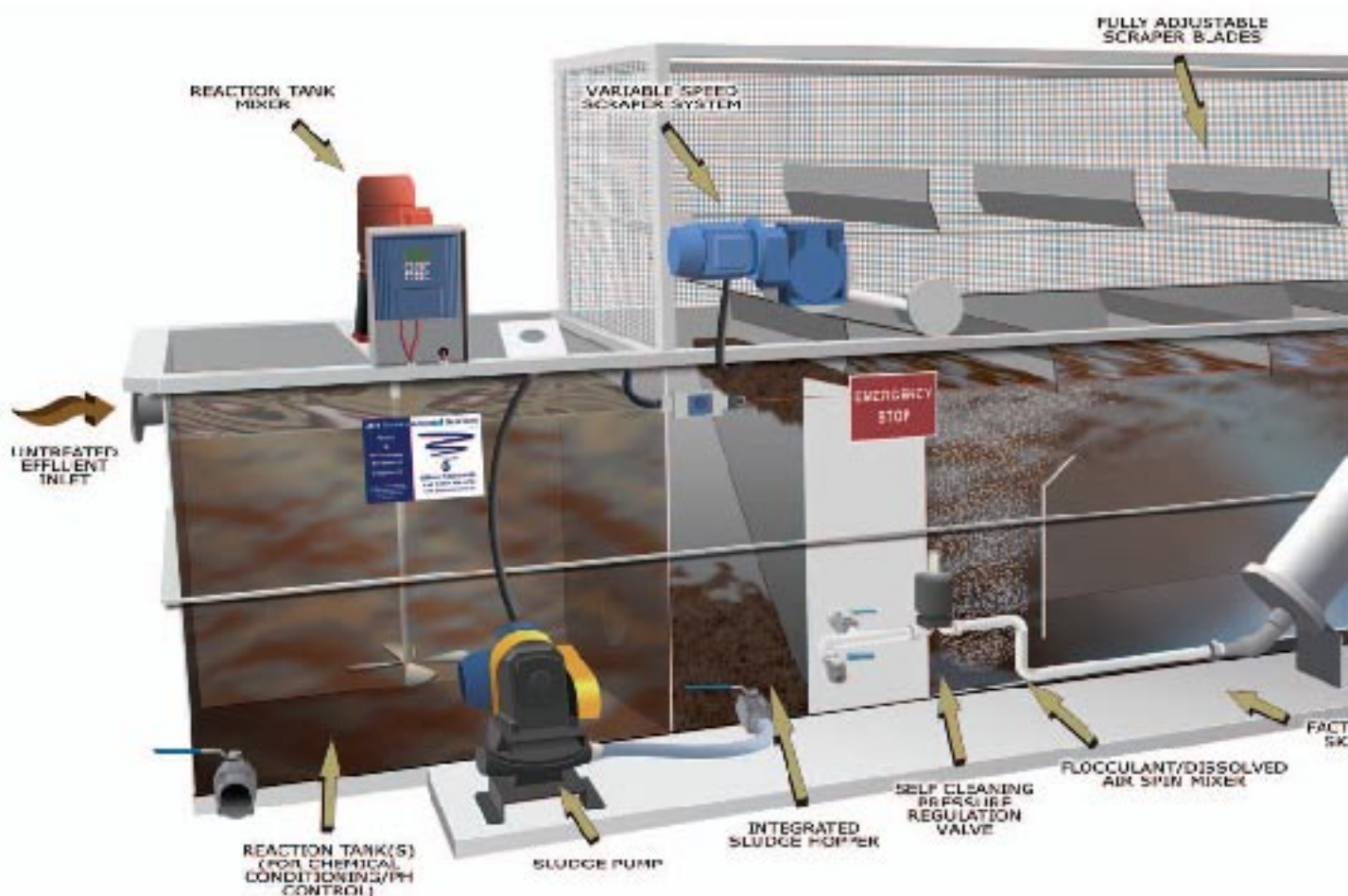
Features Features

Integrated Chemical Reaction Tanks

For upstream pH control or coagulation, the AJM EnviroDAF 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 AJM EnviroDAF features a unique Counter Current sludge removal system. This reversed profile has many advantages over counter 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.



Skid Mounted and Pretested

AJM's 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 AJM's Dissolved Air Contactator. 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.

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/gearbox are designed for continuous duty.



Bottom Sludge Removal

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

"The AJM EnviroDAF is unmatched in quality and performance."

Hundreds of EnviroDAF installations world wide.

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.

Proudly Australian designed and manufactured.

Capacities & 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



Industries Industries

Abattoirs
Abattoirs

Cheese Processing
Cheese Processing

Container Washing
Container Washing

Dairies
Dairies

Food Processing - General
Food Processing - General



Fish Processing
Fish Processing

Metal Removal
Metal Removal

Meat Industry
Meat Industry

Poultry Processing
Poultry Processing

Pulp & Paper
Pulp & Paper

Small Goods
Small Goods

Tanneries
Tanneries

Vegetable Industry
Vegetable Industry



“AJM’s 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.”



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

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.



AJM EnviroDAF™

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“Uncompromised quality and performance, designed and built in Australia”



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

An **EnviroDAF™** system is often 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.

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

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.



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