

MACSEP dissolved air flotation units



Dissolved Air Flotation (DAF) is a powerful separation technique which is widely used and trusted in industrial wastewater treatment. MACSEP supplies a range of DAF units with capacities from 1.0 m³/hr up to 350 m³/hour.

DAF is a gravity separation process in which the separation of two liquid phases is achieved by increasing the specific gravity difference between the two phases. This is achieved by attaching air bubbles to suspended particles, thus reducing their density and so they float to the surface to be removed.

DAF's flexibility and range of application means it can be widely used in many industries, such as food processing, tanneries, heavy metal processing and refineries.

DAF technology can be specifically tailored to individual effluent types allowing it to be the core treatment process in an overall treatment system.

MACSEP supplies a range of DAF units for industrial waste water treatment and sludge thickening. Co-current and counter-current models are available.

Please contact us at the planning stage of your particular project so we can best advise on the best solution and available options.



Features

- Size range from 1.0 m³/hr to 350 m³/hr
- Packaged system built off site in 304 SS (other SS grades optional)
- Automatic top scraper washing
- Bottom scrapers (optional)
- Integral chemical conditioning tanks (optional)
- Chemical dosing (optional)
- 2 year mechanical warranty



Specialists in Oil Water Separation
and Dissolved Air Flotation Technologies

MACSEP
 staff have over 20
 years experience in supplying
 DAF units into the New
 Zealand market



Construction materials

The standard materials of construction for MACSEP DAF units are 304 or 316 stainless steel.

Tank bodies can be constructed of other materials such as duplex or super duplex stainless steel, epoxy painted carbon steel or even concrete for larger units.

DAF advantages

- high efficiency
- compact size
- prepackaged system built off-site
- high sludge concentration
- neutral density particle separation
- wide range of application
- excellent reliability

Industry applications

- food processing
- dairy factories
- tanneries
- abattoirs
- pharmaceutical & cosmetics
- heavy metal processing
- refineries
- municipal wastewater



View of separated material from DAF unit.



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