DISSOLVED AIR FLOTATION (DAF)

Compact, low maintenance DAF units engineered for a wide range of solids and fats/oils removal requirement.

OVERVIEW

Enviro Concepts DAF systems are engineered to efficiently remove suspended solids, fats and oils, BOD, COD and heavy metals from a wide variety of water and wastewater sources. These units are pre-engineered, pre-assembled and factory tested, minimising site installation and start-up time. Simple connections and easy to set up controls make these units ready for quick on-line service. The DAF unit emits minute air bubbles which bind with the oils/fats, precipitated metals and suspended solids increasing their ascending ability. This results in a floating sludge layer that can easily be removed by a mechanical scraper.

APPLICATIONS

- Wash Bays for Cars, Trucks, etc
- Mine Vehicles and Equipment Wash Downs
- Mechanical and Panel Beating Workshops
- Industrial Wash Processes
- Sea Water Desalination
- Storm and Ground Water Treatment
- Restaurants and Hotels
- Grease Trap Waste Treatment
- Food Industry Wastewater
- Activated Sludge Systems
- Sludge Thickening

FEATURES

- Mild Steel or Stainless 304 and 316
- Containerised, Skid Mount or Standalone
- Single, Multiple or No Chemical Injection
- Low Wear Mechanical Scraper
- Level Control Weir
- Feed and Discharge Water Pumps
- Efficient Air Diffusion and Mixing Zone
**SPECIFICATION**

Feed Water Source: Industrial wastewater, wash bay effluent, meat processing effluent, etc.

Flow Capacity: 5 to 200 m³/hr

Max. Suspended Solids: 2,000 mg/L

Dry Weight: Approx. 1.5 to 5.5 Tonne

Power Requirements: 1.1 to 2.2 kW (for the Water), 1.1 to 22.0 kW (for the pumps), 0.55 to 4.0 kW (for the air)

Dosing Chemicals: EnviroCoag, EnviroFloc, EnviroBase

Operating pH: 6 to 10 pH

Operating Temperature: Below 40 deg C

Particle Size: Maximum Input of 1.0 mm

Suspended Solids Reduction: Up to 95% (with Coagulation/Flocculation)

BOD & COD Reduction: Up to 80% (with Coagulation/Flocculation)

Fats, Oils and Grease Reduction: Up to 95% (with Coagulation/Flocculation)

**MODEL RANGE & TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity (m³/hr)</th>
<th>Power (kw)</th>
<th>Dimensions (m)</th>
<th>Pipe Connections (DN)</th>
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<tbody>
<tr>
<td></td>
<td>Pump</td>
<td>Air compressor</td>
<td>Skimming Motor</td>
<td>L/L</td>
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<tr>
<td>DAF006</td>
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