Dissolved Air Flotation (DAF) Unit

AquaPureX™

The AquaPureX **system** is Enviroflex's advanced solution for the treatment of oily wastewater. It is typically installed downstream of a CPI (Corrugated Plate Interceptor), which removes free oil and coarse solids and reduces the oil concentration to **20–200 ppm**. The AquaPureX then targets emulsified oil & fine suspended solids (TSS), achieving effluent values of around 2-10 ppm depending on the application.

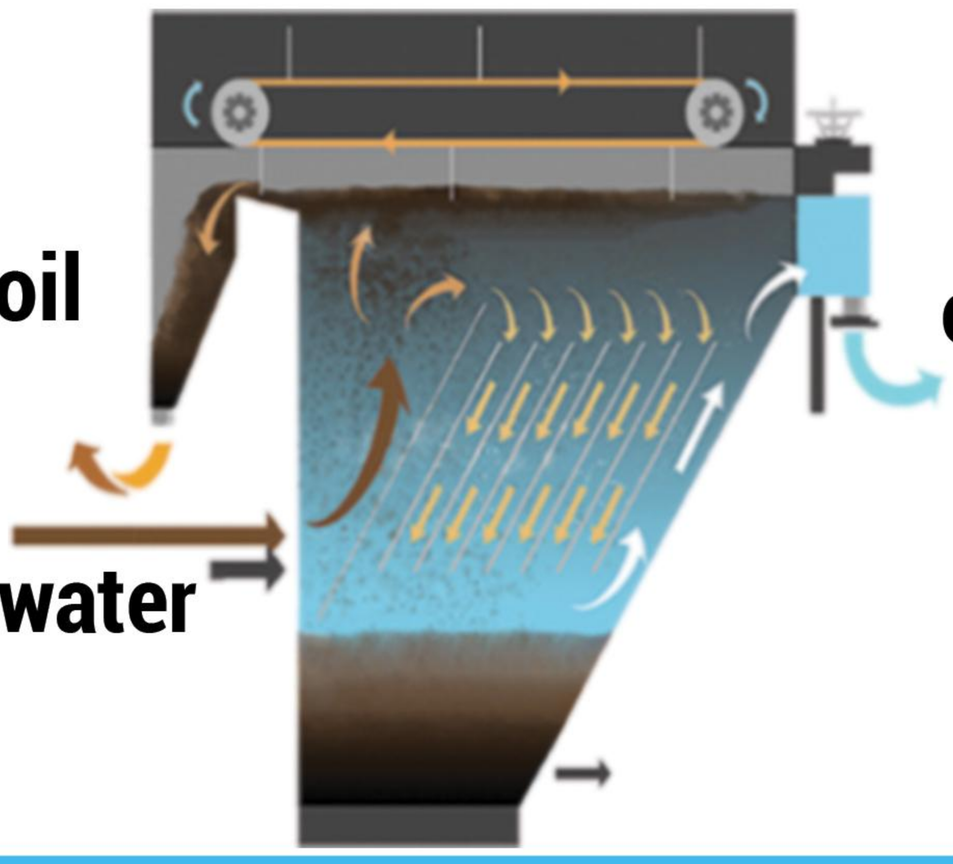
Process & Performance

* **CPI** pretreatment reduces free oil to **20–200 ppm**
* AquaPureX outlet typically ≈ **2-10 ppm**
* **Coagulation & flocculation** destabilize emulsions and fine solids
* **A dissolved-air pressure tank** mixes compressed air with wastewater to create microbubbles
* **Microbubbles** attach to oil droplets and flocs, lifting them to the surface for removal by a skimmer
* **Typical sludge/float** production is **3–15% of influent load**

System Features

* **Capacities** from **0.5 m³/h up to 200 m³/h**
* **Main reactor** in stainless steel or coated concrete
* **Complete modular package including:**
  - Coagulant & flocculant preparation and dosing units
  - Flash mixer & flocculation tanks
  - Air compressor, recycle pump, dissolved-air pressure tank, nozzles/diffusers
  - Surface skimmer, sludge hopper & sludge pump
  - Instrumentation and PLC automation
* **Low chemical consumption** and **reliable reduction of oil and TSS**
* Designed for **oil–water separation** across various industries, with a focus on oily wastewater from refineries, re-refineries, and industrial plants

DAF Unit with coagulant and flocculate preparation & mixing sections, 30 m³/h waste-water feed



"Guarantees clean water discharge and compliance with environmental regulations."

https://enviroflex.at

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