

Oil-water Separation Systems

Factory Address:

Damanganga Industrial Park, Survey No. 275/1/11,
Plot No.: 110, Village: Karvad, Vapi. Gujarat. India

Toll free: 18001234193

Mail: info@neotechwater.com

THE PROBLEM

The untreated wastewater from these overflows contaminate water and the environment, causes

- Serious water quality issues,
- property damage
- and threaten public health
- Effects on the organisms of water bodies



Effective solutions are here!



- 1. Oil Skimmers**
- 2. Oil water Separators(API/TPI/CPI)**
- 3. DAF (Dissolved Air floatation)System**

1. Oil Skimmers

- It is designed to remove floating oil on a liquid surface
- It can effectively remove all kinds of floating oil (including machine oil, kerosene, diesel oil, lubricating oil, plant oil)
- And other liquids with specific gravity less than water.
- Compact design fits almost any tank or pit
- Types of oil skimmers
 - ❖ Belt type oil skimmer
 - ❖ Tube Type oil skimmer
 - ❖ Disc Type oil skimmer



Belt oil skimmer



Tube oil skimmer



Disc oil skimmer

Advantages :

- Low maintenance cost and running cost.
- Compact Size and easy to mount on Tank or Vessel

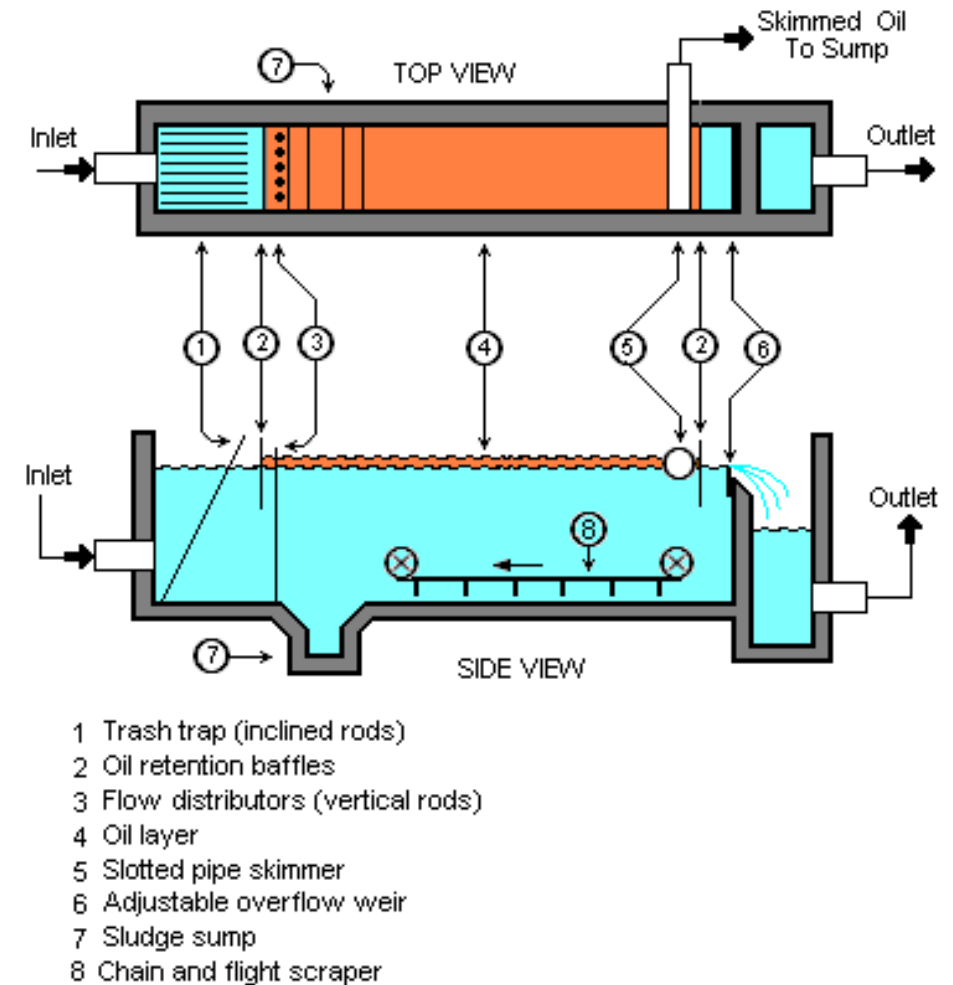
Application:

- Wastewater Sumps
- Parts washers
- Coolant Systems
- Automobile Industries
- Hotels & Food Processing Plants
- Refineries etc.



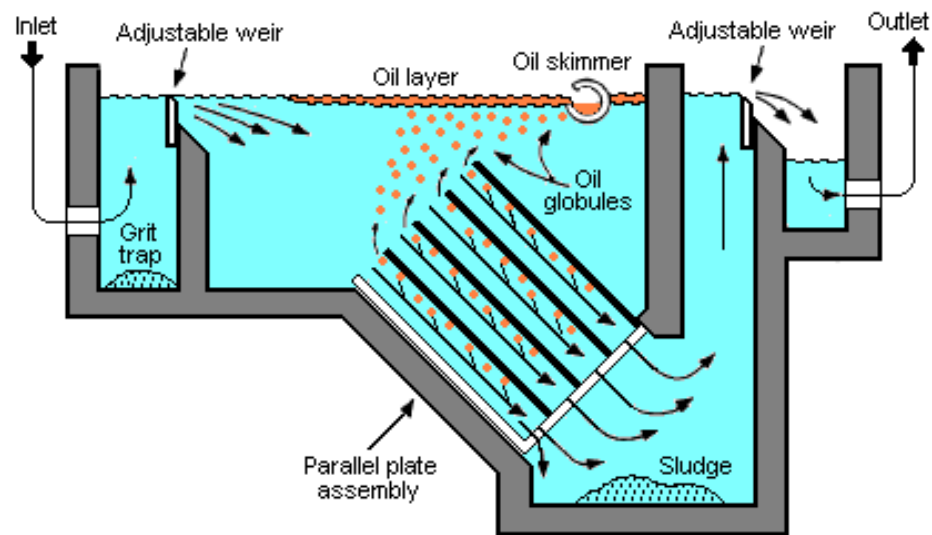
2. Oil Water Separator

- The design of the separator is based on the **Specific gravity** difference between the oil and the wastewater
- Most of the suspended solids will settle to the bottom as a sediment layer, the oil will rise to top of the separator, and the wastewater will be the middle layer between the oil on top and the solids on the bottom



API

- TPI/CPI are similar to API separators but they include tilted parallel plate assemblies
- Parallel plates provide more surface for suspended oil droplets to coalesce into larger globules.
- The result is that a plate separator requires significantly less space than a API separator to achieve the same degree of separation



TPI/CPI

Advantages :

- Very low maintenance cost since there are no moving parts.
- High efficiency and capacity combined with compact volume.
- Can handle shock loads without affecting effluent quality significantly

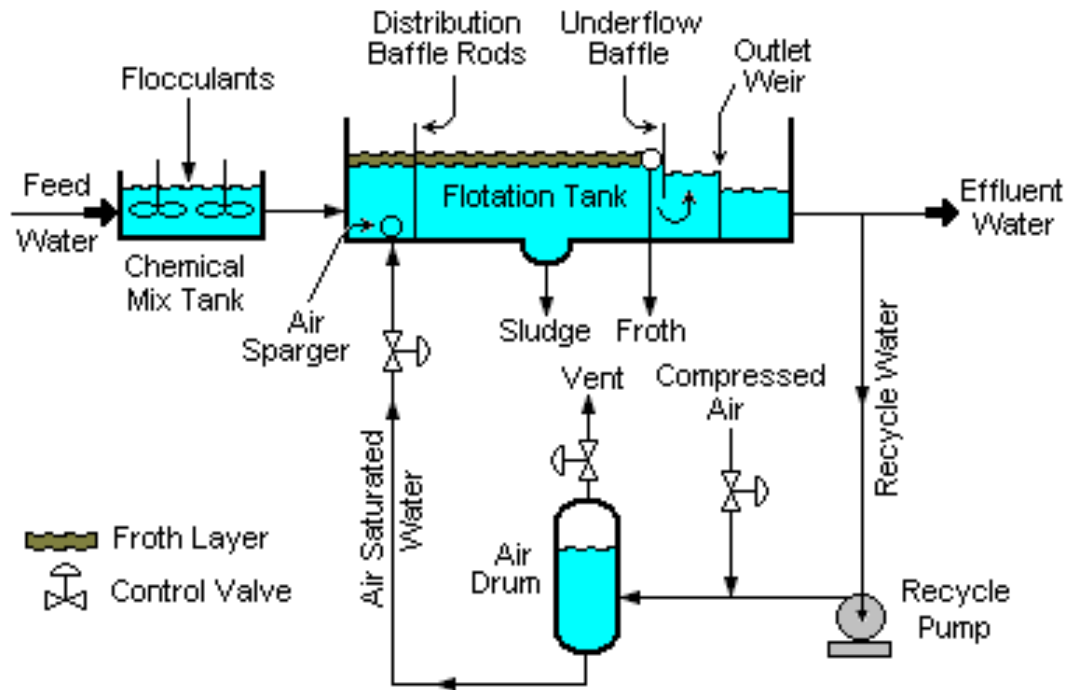


Application:

- Oilfield production onshore and offshore
- Refineries
- Petrochemical Plants
- Industrial Plants
- Rainwater runoff
- Water treatment facilities

3. Dissolved Air Flotation

- Dissolved air flotation (DAF) is a clarification process that utilizes air to remove suspended matter from the surface
- DAF works by dissolving air under pressure and then releasing millions of tiny air bubbles into the water at atmospheric pressure.
- This process allows the dissolved air bubbles to adhere to a suspended matter within the water, causing it to come to the surface to be skimmed away.
- The process is also often assisted by the addition of a coagulant or a flocculant to the flow water



Key Features:

- Complete, skid-mounted design available for ease of installation
- DAF system is efficient and can clarify high volumes of wastewater in one session
- Rectangular profile for maximum space utilization
- Designed to stand with extreme environment
- Superior performance with less inputs
- An improved high level system which is both efficient and simple to use
- Compact design to reduce space.
- Removes high concentration of oil and suspended solids

Application:

- Food processing industries
- Oil Refineries
- Chemical plants
- Pulp & Paper mills
- Dairy Industries
- Pharmaceutical industries

THANK YOU

