

Oil/Water Separators

Rectangular & Circular Units



WESTECH

Your first line of defense

WesTech Oil/Water Separators

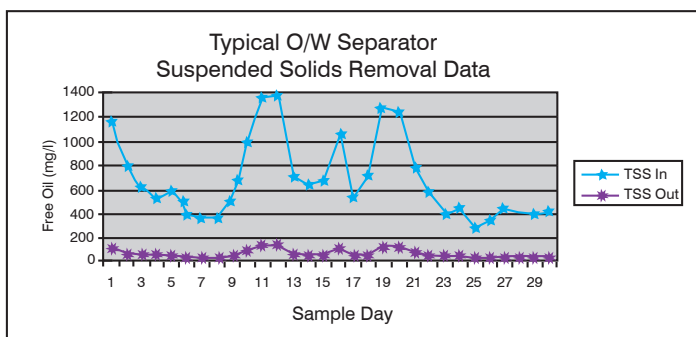
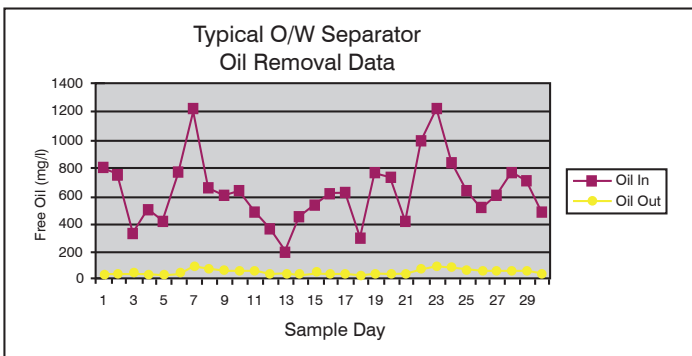
Designed according to the American Petroleum Institute (API) 421, WesTech Oil/Water (O/W) Separators combine state-of-the-art separation, skimming and sludge transport technologies into a highly efficient primary oil separation device.

Removing the bulk of free oils and greases from plant wastewater streams reduces overloading and other problems in downstream treatment processes. WesTech O/W Separators are the right choice for general refinery wastewater, tank wash, bilge water, ballast water, desalter waste and storm wastewater runoff.

WesTech O/W Separator internals are easily configured to fit existing tanks for an effective retrofit, improving performance and extending the useful life of the equipment. Drawing on extensive experience in liquid/solids separation techniques in many industries, WesTech has incorporated the design features of API 421 in both rectangular and circular basins. Circular designs allow for greater flexibility in plot design. They also have the ability to convey higher density and quantity of solids, eliminate sealing issues from wall penetrations and incorporate WesTech's premier heavy duty, maintenance friendly drive unit.



- Reduce Waste Treatment Load
- Recover Free Oil
- Improve Process Treatment
- Refinery Wastewater
- Storm Run-off Water
- Bilge Water
- Desalter Waste
- Ballast Water
- Reduce Slop Oil Water
- Asphalt Waste



O/W Separation Features

- Elevated, on-grade and in-ground configurations are standard. **Steel, stainless steel, and concrete** are primary tank materials of construction.
- All WesTech O/W Separators can be equipped with **VOC containment covers**. Both fixed and floating styles are available.
- WesTech uses state-of-the-art high strength **polymeric chain and flight components** for long life and corrosion resistance. Stainless chains and FRP flights are also available.
- High efficiency drum and disc type oil collection skimmers collect floating oil and effectively dewater the oil, making oil recovery much simpler. **Slotted rotating pipe skimmers** remove the excess oil during peak loading or when the slop oil system can accept higher water content.
- Sludge transport is accomplished with either a **high strength polymeric chain and flight system and/or a hopper screw conveyor arrangement**. Two and four shaft chain systems effectively collect settled solids and return to the surface to increase the conveyance of floating oil. Stainless steel chains are also available.
- **Sludge collection hoppers** are sized and configured to handle heavy, sticky sludges and ensure consistent sludge removal from the unit. Special fluidizing nozzles are located in the hoppers to eliminate bridging and plugging by viscous materials.
- Even feed distribution is critical in a properly operating O/W Separator. WesTech uses **conical distribution nozzles** which effectively eliminate forward velocity and evenly distribute influent to enhance gravity separation of free oil droplets along the length of the separation unit.



VOC Containment Cover



Drum Skimmer



Chain and Flight



Slotted Rotating Pipe, Skimmer



Sludge Hopper



Energy Dissipating Distribution Inlets

WesTech Equipment for the Petroleum & Chemical Industries

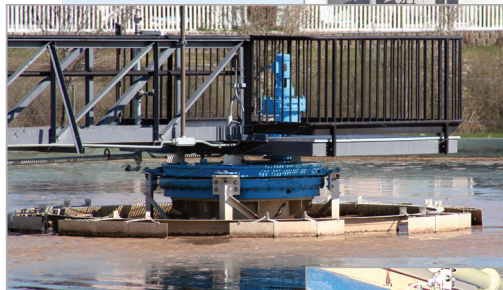
• Raw Water Pretreatment • Cooling Water • Process Water • Plant Wastewater • Produced Water

- Traditional Clarifiers
- Solids Contact Clarifiers
- Lamella Clarifiers
- Thickeners
- Oil/Water Separators
- DAF/DGF
- Fine Screens
- Biotreaters
- Oxidation Ditches
- Digesters
- Trickling Filters
- Pressure Filters
- Gravity Filters
- Vacuum Filters
- Dewatering Equipment
- Grit Separators
- Pretreatment Systems
- Replacement Drives
- Tankage & Erection
- Lab & Field Testing
- Pilot Plants

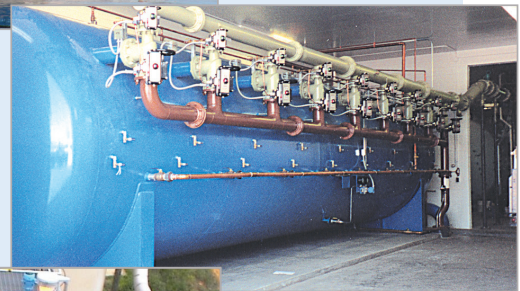
Available in Rectangular and Circular Designs



Dissolved Gas Flotation



Clarifier/Thickener Drives



Pressure Filter



Solids Contact Clarifier

WesTech Engineering is a leader in the field of liquid/solids separation for industrial and municipal plants. For a complete overview of WesTech equipment, please visit www.westech-inc.com

WESTECH
Process Equipment. Process Driven.

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