

# MONROE

## API Oil/Water Separators



*14 ft. x 90 ft. long 105 GPM API Separator with cover, insulation, and aluminum cladding. API Separators as large as 14 feet wide x 100 feet long can be shipped from our factory in one piece fully assembled.*

Monroe custom oil/water separators are designed per American Petroleum Institute standards (API) for above and below ground installations.

The Monroe API Separator is designed for the removal of free oil and solids. If the removal of soluble substances is required, Monroe can provide additional treatment equipment or will recommend other Monroe Clarifiers.

Gravity differential settling is used to separate the oil from water. Monroe engineers will evaluate the type and state of the oil and the characteristics of the waste stream to determine the proper design and size of the separator. Oil globule size, specific gravity of the oil and wastewater, temperature and viscosity should be considered. Suspended solids will also be settled from the wastewater and provisions of this will be part of the design.

Monroe is able to provide API Separators in large shop-fabricated and assembled units to reduce installation costs. Separators as large as 14 feet wide x 100 feet long can be shipped from our factory in one piece fully assembled.

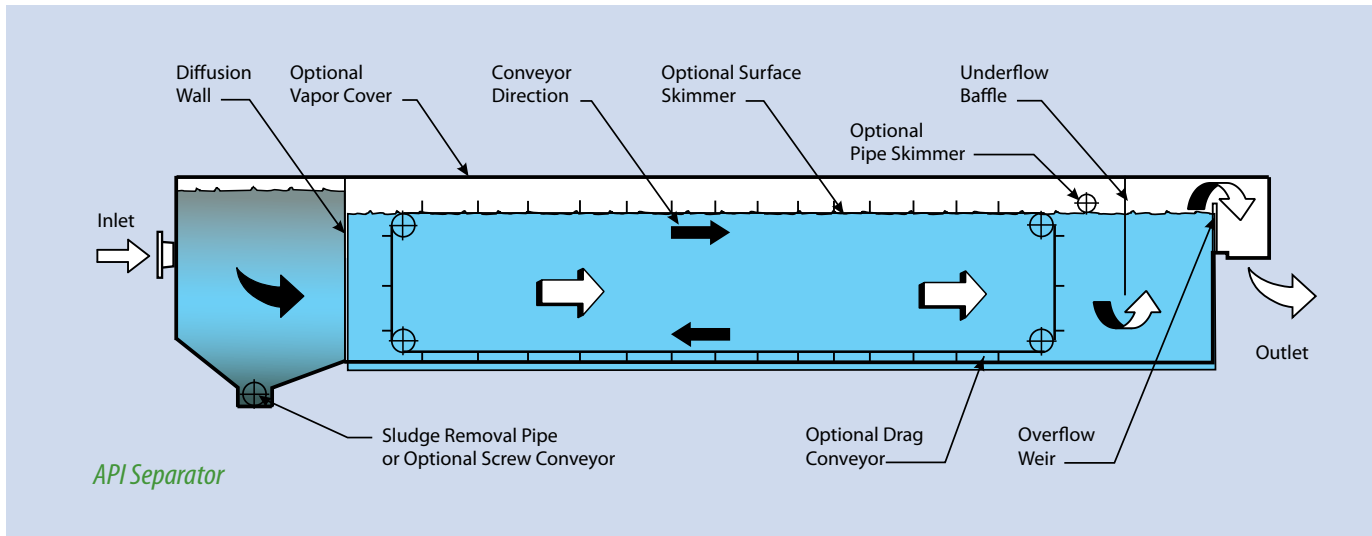
The basic components of the Monroe Separator include an inlet section with diffusion wall, separator channel, an oil retention baffle and an outlet section. Depending on your requirements, additional options can include trash screens, a slotted pipe skimmer, surface conveyors, and a bottom drag or screw conveyor for solids handling.

Complete covers of various materials are available including the necessary environmental and safety requirements. These provisions may include a nitrogen blanketing system, carbon filtering to remove hydrocarbons from the blanket gas, exhaust flares and pressure relieving valves and access doors.

Above ground Separators are normally constructed from carbon steel with corrosion resistant coatings. Below ground Separators are normally fabricated from steel or concrete and may include the additional requirements for containment and leak detection.

Existing API Separators can be upgraded with new internal components. In addition, Monroe parallel plate packs can be added to existing API Separators to increase the effective surface area which will provide increased oil removal and increased wastewater flow capacity.

# MONROE API Oil/Water Separators



## Special Features

- Remove oil from wastewater
- Custom designed for your application
- Separators shipped one piece up to 14 feet wide x 100 feet long
- Mechanical surface skimmer and pipe skimmer available
- Mechanical drag conveyor available
- Vapor covers available with environmental and safety equipment
- Retrofit components to upgrade existing separators
- Monroe Parallel Plate packs to improve oil removal in existing separators

*(Left) 525 GPM API Separator – polypropylene tank construction with non-metallic internals and mild steel support structure*

*(Right) Non-metallic surface skimmer and drag conveyor components inside API Separator*

Monroe Environmental designs and builds liquid cleaning and recycling equipment including:

- Circular Clarifiers
- Parallel Plate Settlers
- Tube Settlers
- Horizontal and Vertical Clarifiers
- Air Strippers
- API Separators
- Oil Recovery Units
- Complete Engineered Systems



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