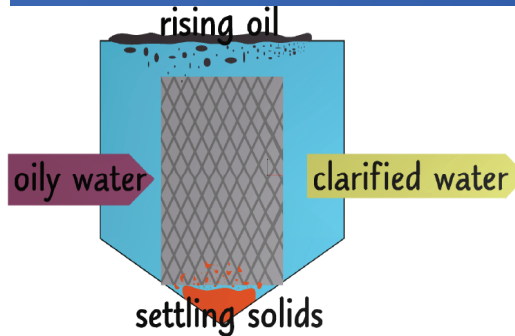




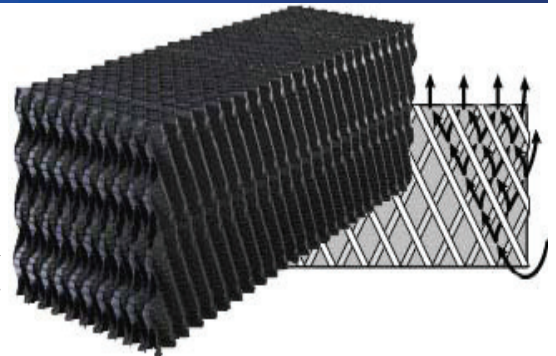
OIL & WATER SEPARATOR (OWS)



AVANTech provides **Oil & Water Separator (OWS)** Systems in an API, Rectangular and Cylindrical Tank configuration. All systems are a gravity/coalescing design for removal of free and finely dispersed oil droplets from various process streams. Gravity separation exploits the difference in the specific gravity between the fluid by designing adequate retention time for the less dense oil to rise to the water surface. The theory is based on the rise rate of oil droplets in the water and the surface-loading rate of the separator. When oil rises towards the surface faster than the surface loading rate (calculated from Stoke's Law) the oil will reach the surface and can be skimmed off.

COALESCING MEDIA

AVANTech provides **Coalescing Media** constructed of polyvinyl chloride (PVC) corrugated sheets. PVC is an oleophilic material that loves oil and attracts smaller oil droplets to the surface where they adhere to form larger drops which rise up to the surface of the media and break free, allowing a quick rise to the surface of the water. PVC is chemically inert to most oils and can be used at normal temperature. For hot temperatures, polypropylene is recommended. Polypropylene is also very oleophilic and can be used up to temperatures of 180°F. For higher temperatures, stainless steel plate packs are available.



DESIGN FEATURES

AVANTech provides **OWS** in an API, Rectangular and Cylindrical Tank configuration.

The American Petroleum Institute's (API) type systems typically reduces inlet loads of oil and suspended solids in refinery application.

Design Features Include:

- ✓ A-36 Steel
- ✓ Adjustable Water Weir
- ✓ Coalescing Media
- ✓ Integral Oil Reservoir
- ✓ Solid's Hopper
- ✓ Influent Diffuser
- ✓ Effluent Chamber
- ✓ Interior Epoxy Coating
- ✓ Exterior Paint
- ✓ Skid Mounted
- ✓ Lifting Lugs
- ✓ Manway on Cylinder Tank

OPTIONS

AVANTech provides optional features that will enhance the operation of the **OWS** systems.

Optional Features Include:

- ✓ Influent Pump Package
- ✓ Effluent Pump Package
- ✓ Oil Pump Package
- ✓ Solids Pump Package
- ✓ Other Coalescing Media Design
- ✓ Larger Oil Reservoir
- ✓ Hot Temperature Design
- ✓ Polishing Coalescing Media
- ✓ Oil Site Glass
- ✓ Oil Indicator/Transmitter
- ✓ Walkways on Rectangular Tanks
- ✓ Ladders on Cylinder Tanks
- ✓ Larger Manway on Cylinder Tanks
- ✓ Rise Manway on Cylinder Tanks
- ✓ Hold Down Straps on Cylinder Tanks
- ✓ Emulsion Break System
- ✓ Polishing Filters

APPLICATIONS

There are many wastewater treatment applications that would benefit from providing an API, Rectangular or Cylinder Tank configuration.

Applications Include:

- ✓ Grinding & Milling Machine
- ✓ Groundwater Remediation
- ✓ Rainwater/Storm Water Runoff
- ✓ Airport & Parking Runoff
- ✓ Electric/Power Plant Treatment
- ✓ Oil Drilling & Offshore Platforms
- ✓ Aircraft/Vehicle Wash Down
- ✓ Bilge/Ballast Water Treatment
- ✓ Machine Coolant Oil Removal
- ✓ Manufacturing & Recycle Facility
- ✓ Hazardous Waste Treatment Facility
- ✓ Steel/Tube/Machine Shop Facility
- ✓ Pulp & Paper/Steel/Chemical Plants
- ✓ Railroad Yards/Tank Farm
- ✓ Laundry/Textile/Automotive Plant
- ✓ Land Fills



OIL WATER SEPARATOR SYSTEMS - WTModules Series

OIL WATER SEPARATOR SYSTEM – WTModules OWS Series

Model	Flow	Length	Height	Width	Influent	Outlet
OWS-10	10	6'	3'	3'	2'	1'-6"
OWS-25	25	6'	4'	3'	3'	2'-6"
OWS-50	50	6'	4'	3'	3'	2'-6"
OWS-75	75	8'	5'	3'	4'	3'-6"
OWS-100	100	8'	6'	3'	4'	3'-6"
OWS-150	150	8'	7'	3'	4'-6"	4'
OWS-200	200	8'	7'	4'	4'-6"	4'
OWS-250	250	8'	7'	4'	4'-6"	4'
OWS-300	300	8'	7'	6'	4'-6"	4'
OWS-350	350	8'	7'	8'	4'-6"	4'
OWS-400	400	8'	7'	9'	4'-6"	4'
OWS-450	450	14'	7'	6'	4'-6"	4'
OWS-500	500	14'	7'	7'	4'-6"	4'
OWS-600	600	14'	7'	8'	4'-6"	4'
OWS-700	700	14'	7'	9'	4'-6"	4'
OWS-800	800	14'	7'	10'	4'-6"	4'
OWS-900	900	17'	11'	6'	9'	8'-6"
OWS-1000	1000	17'	11'	7'	9'	8'
OWS-1200	1200	17'	11'	8'	9'	8'
OWS-1600	1600	17'	11'	10'	9'	8'
OWS-1800	1800	25'	11'	9'	9'	8'
OWS-2000	2000	25'	11'	10'	9'	8'
OWS-2500	2500	28'	11'	10'	9'	8'
OWS-3000	3000	28'	11'	11'	9'	8'
OWS-3500	3500	38'	11'	11'	9'	8'
OWS-4000	4000	38'	11'	12'	9'	8'
OWS-4500	4500	42'	13'	12'	9'-6"	9'
OWS-5000	5000	42'	14'	12'	9'-6"	9'

OIL WATER SEPARATOR SYSTEM – WTModules API Series

Model	Flow	Length	Height	Width	Influent	Outlet
API-10	10	10'	4'	4'	2'	2'
API-25	25	13'	4'	5'	2'	2'
API-50	50	16'	4'	5'	2'	2'
API-100	100	26'	6'	6'	2'	2'
API-150	150	26'	6'	7'	3'	3'
API-200	200	33'	6'	7'	3'	3'
API-250	250	42'	6'	7'	3'	3'
API-300	300	42'	6'	7'	3'	3'
API-400	400	50'	6'	6'	3'	3'
API-500	500	60'	6'	6'	3'	3'
API-600	600	60'	6'	6'	3'	3'

OIL WATER SEPARATOR SYSTEM – WTModules CTS Series

Cylindrical Tank Systems (CTS) are custom designed for site specific applications, contact the factory for assistance.

CONTACT

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