

# Oil/Water Separators

## Geotech Oil/Water Separators

Geotech Oil/Water Separators are designed to separate oil, light petroleum products, and oily-coated solids from water with 99.9% efficiency. The separator is comprised of a tank with inlet, separation chamber, sludge chamber, and clean water outlet- all constructed from 12-gauge stainless steel.

### FEATURES

- Professional lined for superior corrosion resistance
- Marine-grade aluminum vapor control covers
- Non-clog inlet with diffuser for even distribution across separator chamber
- Compatible with Geotech positive displacement pump or gravity feed
- Built in underflow weir to control settled solid from redistributing
- Meets EPA Method 1664 Rev. A and EU EN 858-1 Standards

### PRINCIPLE OF OPERATION

Geotech's oil water separators use parallel corrugated plate technology that causes oil droplets to increase in size, thereby speeding the gravity separation process according to Stokes' Law. We offer a unique inclined coalescing plate design with an internal structure of interconnecting plates having many crossing points between adjacent plates; as the oil water mixture flows through the separator, new droplets coalesce with retained droplets to form larger droplets. The enlarged droplets are released, and they rise to the surface where they decant from the separator. Since the Stokes' Law calculations presume a zero velocity flow through the plates, a Reynold's Number less than 500 will ensure optimum separation in the oil water separator.



**CALL GEOTECH TODAY (800) 833-7958**

**Geotech Environmental Equipment, Inc.**

2650 East 40th Avenue • Denver, Colorado 80205

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# Oil/Water Separators



## Geotech Oil/Water Separators

### AG MODEL SPECIFICATIONS

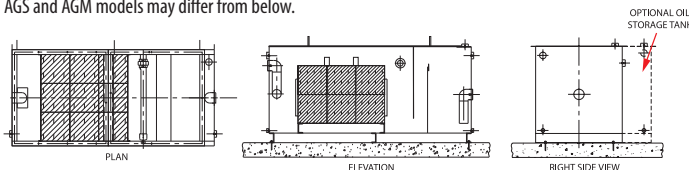
Model	Flow Rate (GPM)	Diameter	Width	Length	Height	Capacity (GAL)
<b>AGS Series</b>						
AGS-1	2-6	2"	16"	48"	28"	60
AGS-2	3-11	2"	28"	48"	28"	120
AGS-3	5-20	2"	40"	48"	28"	180
<b>AGM Series</b>						
AGM-2	6-22	2"	28"	60"	28"	150
AGM-3	9-33	2"	40"	60"	28"	225
AGM-2-1H	12-40	2"	28"	60"	40"	172
AGM-3-1H	18-60	2"	40"	60"	40"	258
<b>AG Series</b>						
AG-2	50	3"	28"	72"	40"	269
AG-3	75	3"	40"	72"	40"	403
AG-4	100	4"	52"	72"	40"	718
AG-4-1H	150	4"	52"	84"	52"	837

Dimensions are approximate and flow rates are dependent on the type of oil, media, and temperature in your application.

Note: Larger sizes available.

#### AG Model

AGS and AGM models may differ from below.



#### Related Models

Contact Geotech for collecting settleable solids and DNAPL.

#### Separation Chamber

The oil separation chamber shall contain the appropriate coalescing media specific to your application. The media when installed in crossflow OWS shall meet US EPA Method 1664 Rev. A and also European Standard 858-1 for oil water separators.

#### Baffles

An oil retention, underflow weir, and overflow weir will be provided. Underflow weir shall be positioned to prevent resuspension of settled solids.

#### Sludge Baffle

The sludge chamber shall be located prior to the coalescing compartment for the settling of any solids. It shall also prevent any solids from entering the clean water chamber.

#### Oil Skimmer

The oil separation chamber will be provided with a rotating pipe skimmer for gravity decanting of the separated oil to an external product storage tank or an optional integral product storage tank. Other various types of skimmers can be provided as an additional option.

#### Clean Water Chamber

The tank will be provided with a clean water chamber, which allows the water to leave the separator by gravity flow through the clean water outlet port.

For models using Effluent Pump Out Chamber, water will leave separator by pumped flow. The chamber will be of sufficient volume to turn pump on/off.

#### Vents

Appropriately sized vents will be provided.

### AG MODEL WITH EFFLUENT PUMP OUT CHAMBER SPECIFICATIONS

Model	Flow Rate (GPM)	Diameter	Width	Length	Height	Capacity (GAL)	Clean Water Chamber Capacity
<b>AGS Series</b>							
AGS-1SS-30V	2-6	2"	16"	48"	48"	75	30
AGS-2SS-60V	3-11	2"	28"	48"	48"	174	60
AGS-3SS-90V	5-17	2"	40"	48"	48"	270	90
<b>AGM Series</b>							
AGM-2SS-60V	6-22	2"	28"	60"	48"	210	60
AGM-3SS-90V	9-33	2"	40"	60"	48"	279	90
AGM-2SS-90V-1H	12-40	2"	28"	60"	58"	217	90
AGM-3SS-150V-1H	18-60	2"	40"	60"	58"	325	150
<b>AG Series</b>							
AG-2	50	3"	28"	72"	56"	419	150
AG-3	75	3"	40"	72"	56"	628	225
AG-4	100	4"	52"	72"	56"	1018	300
AG-4-1H	150	4"	52"	84"	72"	1287	450

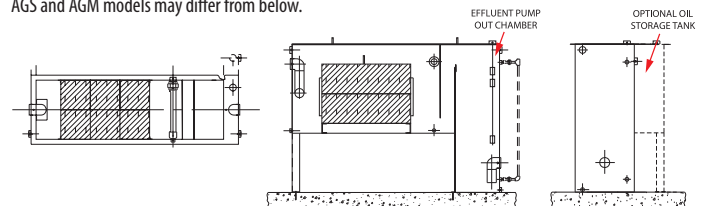
Dimensions are approximate and flow rates are dependent on the type of oil, media, and temperature in your application.

Note: Larger sizes available.

Product storage tank adds 12" to width.

#### AG Model with Effluent Pump Out Chamber

AGS and AGM models may differ from below.



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