



*Quality in metal fabrication for over 50 years*



**Sales, Manufacturing  
and Engineering**

## **Oil/Water Separator**

**For use in  
automotive,  
industrial and  
institutional  
wastewater  
treatment.**



**Helping Maintain Our Water as a Useable Resource**  
*in compliance with Governmental Regulatory Standards*

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PETROLEUM EQUIPMENT INSTITUTE



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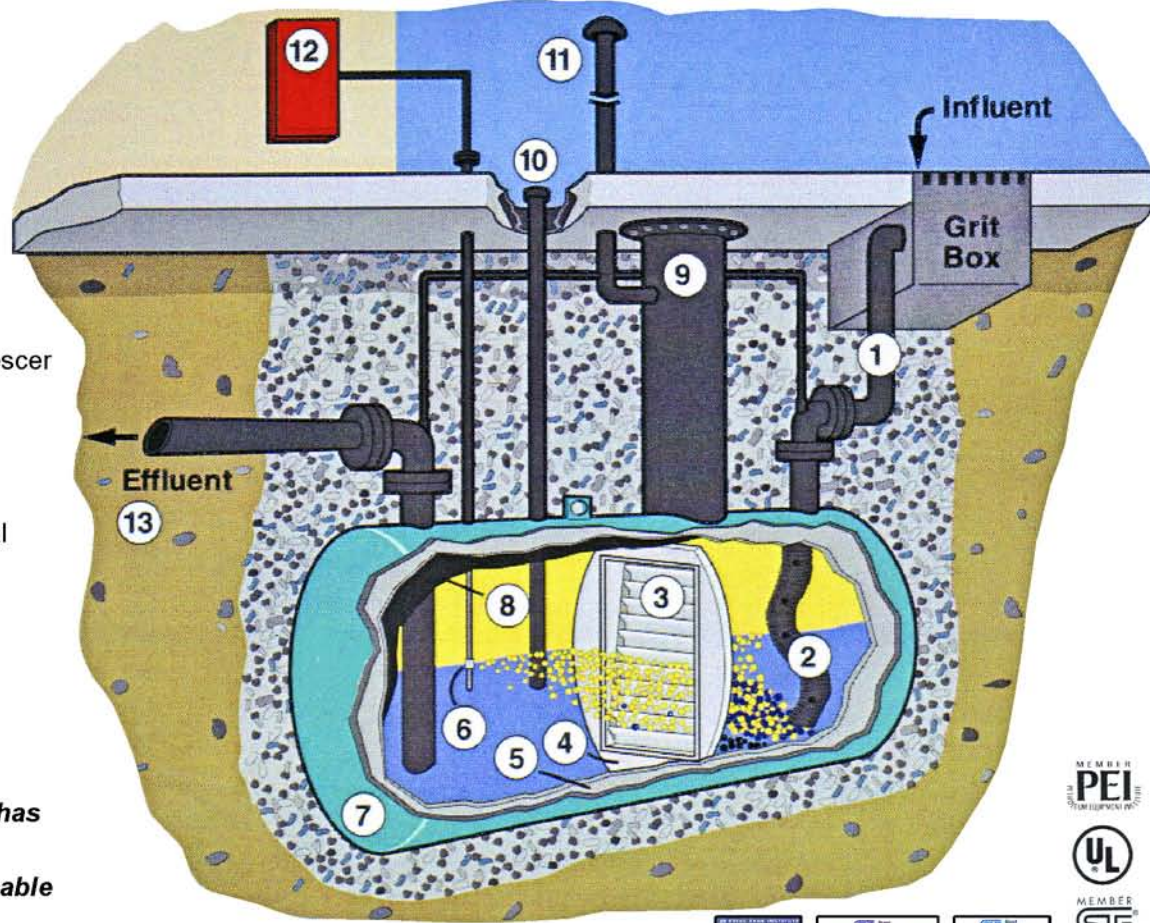




## Oil / Water Separator

U.S. Patent Number 4,844,819

1. Influent (inlet)
2. Patented Spiral Coil
3. Parallel Corrugated Plate Coalescer
4. Sludge Baffle
5. Carbon Steel Inner Tank
6. Probe
7. Polyurethane - standard  
Fiberglass Outer Tank - optional
8. Optional- Interior Coating
9. Manway (for Sludge Removal)
10. Oil Suction
11. Vent
12. Alarm Panel
13. Effluent (outlet)



**The General Industries Separator has been certified by an independent engineering firm to meet all applicable standards.**

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### How it works:

1. Install unit as per sti-P3<sup>®</sup>, ACT-100<sup>®</sup> or ACT-100U<sup>®</sup> installation Instructions.
2. General Industries recommends to install a grit chamber to trap any trash or solids before entry in separator.
3. Fill Separator completely with water.
4. When oil/water mixture enters through a patented corrugated pipe.
5. Oil/water mixture is sent through parallel corrugated plate coalescence to squeeze out oil.
6. Sludge is trapped so it will not continue down stream.
7. Water overflows off bottom and discharged to storm drain or other receptable areas.
8. To increase oil removal efficiency, (10ppm) a polypropylene coalescence pack is used to intercept droplets of oil too small to be removed by parrallel corrugated plate coalescences.
9. The waste oil should be removed when oil storage reaches 40-50% of total separator capacity.

### General Separators are designed based on the following:

- UL-58 (Single and Double Wall)
- sti-P3<sup>®</sup>, ACT-100<sup>®</sup> or ACT-100U<sup>®</sup>
- API Bulletin No. 1630
- Waste water handling and treatment manual for petroleum marketing facilities
- Stokes Law
- Buffalo Morse principle
- API Manual or disposal of petroleum wastes

### General Industries can provide a wide variety of options to accomdate your requirements:

- Single or Double Wall
- sti-P3<sup>®</sup>, ACT-100<sup>®</sup> or ACT-100U<sup>®</sup>
- 15ppm oil/grease efficiency (or 10ppm oil/grease efficiency with removable polypropylene pack)
- Probes and control panels to monitor levels of oil requiring pump out
- Probes to monitor interstitial space for double wall tanks
- Skimmers with overflow tanks to increase oil storage capacity
- Identical units can be skid mounted

The Environmental Protection Agency (EPA), state and local government agencies have in place regulations which control, monitor and prohibit the discharge of wastewater. Some facilities which these regulations will affect include:

- |  |  |
|--|--|
| • Automotive Service Stations                                | • Airports   |
| • Truck Stops, Terminal and Garages - Military and Municipal | • Railroad Yards   |
| • Quick Lube Operations                                      | • Farm Maintenance   |
| • Rental Car Agencies  | • Muffler Shops  |
| • Bus Maintenance Garages                                    | • Any business with parking lots that collect oil from leaking parked cars |
| • Automotive Dealerships                                     |  |



## The General Industries UL-2215 AquaSweep

### Specifications:

Tested & Listed per Underwriters  
Laboratories UL-2215

Meets ULCS656 Standards for Oil /  
Water Separator

Used to process storm water and  
wastewater runoff for compliance with  
US EPA Clean Water Act criteria

Available with tank capacities from 300  
to 50,000 gallons

Flow Rates fro 45 to 10,000 gallons per  
minute

Rated effluent efficiency of less than  
10ppm on most models, and less than  
5ppm on selected models

Optional double-wall designs offer  
integral secondary containment which  
can be monitored for leaks

Corrosion protection of exterior tank  
constructed to UL and STI standards  
with strict third-party quality control  
inspection program

Customized manways can provided for  
cost effective maintenance access

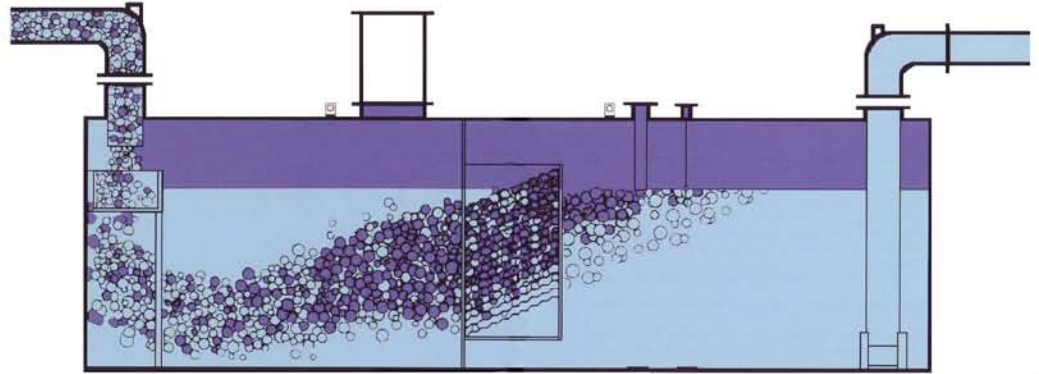
Liquid level sensors and control panels  
available to sense the oil within the tank,  
and alert the operator when the oil needs  
to be removed

Interior coating to treat against corrosion  
and heavy chemical or other substance  
ware

Several models available

Available coatings are STI-P3 or  
ACT-100 or ACT-100U

# NEW AND IMPROVED UL-2215



### What Makes AquaSweep different from other oil water separators

- UL-2215 Listed and STI Engineered and Labeled
- Available in a range of capacities, flow rates and effluent discharge efficiency levels rated as low as 5ppm.
- Option double-wall designs offer integral secondary containment
- Hi Oil Level sensors and Alarm Panel required
- Corrosion protected tank built to nationally recognized STI standards with strict third-party quality control inspection program
- Various coalescer material are a available that meet UL requirements
- Internal Coatings required

### How does the AquaSweep Oil / Water Separator Work?

Gravity Oil Water Separators are designed for gravity-induced separation of oil from water. This system is passive, meaning that the attributes of the incoming oily water will directly determine the characteristics of treated outgoing water. The separators are designed for gravity removal of non-emulsified hydrocarbons, i.e., motor oils, lightweight oils, and related petroleum products with a specific gravity of less than 1.0. Depending upon the AquaSweep model, the contaminated oily water follows a paththrough various pre-selected coalescer materials. The AquaSweep Gravity Oil Water Spearator construction slows the flow and turbulence of the incoming water. The interplay of this motion, coupled with buoyant forces and contact with the coalescer material(s) cause droplets of oil to rise and combine into larger oil globules. The globules rise to the surface and float on top of the water. Sludge and other matter settle and accumulate at the bottom of the tank compartment. The resultant storm water, having been cleaned of these contaminants, exits the separator, below the oil level for further treatment or is directed back into the environment. Accumulation of oil and sludge within the separator are contained until they can be removed and disposed of properly.

*Helps you meet EPA Phase I and II  
Storm Water Program discharge limits*

Each tank manufactured by General Industries, Inc. must pass a multi-step quality control program. Tanks are tested at various stages during the manufacturing process to assure quality, with all results documented for future inspection.

If you would like more information concerning design, pricing or installation,  
contact us at:

(919) 751-1791 or (888) 735-2882

E-mail: [tanks@gitank.com](mailto:tanks@gitank.com)

 **AquaSweep™**  
Gravity Oil Water Separator

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