



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

MEMBER
PEI
PETROLEUM EQUIPMENT INSTITUTE



MEMBER
STI
STEEL TANK
INSTITUTE



Oil / Water Separator

U.S. Patent Number 4,844,819

If you need an oil/water separator, the General Separator can help you meet Local, State, and Federal oil and grease discharge requirements.

General Industries equipment covers requirements set by the following agency standards:

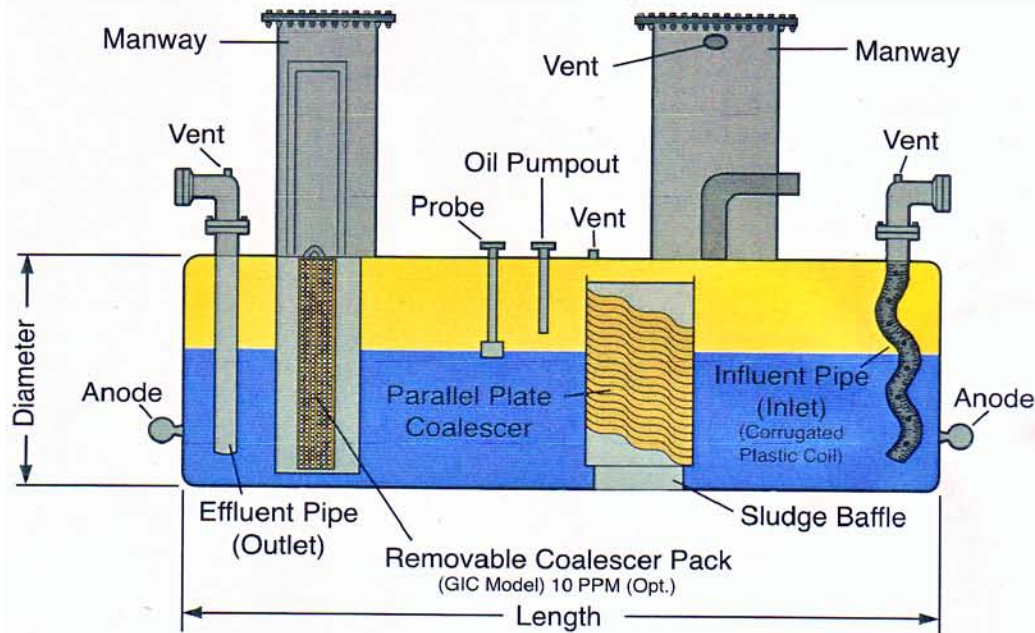
- EPA-Clean Water Act
- Resource Conservation & Recovery Act
- Water Quality Act Requirements
- NPDES Stormwater Regulations
- Safe Drinking Water Act

The General Separator is designed to separate oil and greasy solids from wastewater, operating on the principles of weight oil (hydrocarbons) separates from the heavier weight water, and can be disposed in a more cost efficient manner. This process of de-watering now permits the disposal of concentrated unwanted waste, while water may be discharged safely and in accordance with governmental regulations.

General Industries also provides an above ground separator which can be used to clean up oil spills in areas as needed.

All General Separators are factory tested and assembled. We build standard and custom tank separators to meet the applications of specific industry needs.

The North Carolina Department of Transportation and the North Carolina Army National Guard are presently utilizing the technology of the General Separator. These are just two of the many organizations at which oil/water separators are rapidly becoming a necessary standard.



OIL WATER SEPARATOR SCHEDULE							
MODEL	TOTAL VOLUME	TOTAL SPILL CAP	FLOW RATE GPM	DIA.	LENGTH	INLET/ OUTLET	WEIGHT APPX. LBS.
GI/GIC-300	300	150	30	3'0"	6'2"	3"	635
GI/GIC-530	530	250	50	3'10"	6'2"	4"	935
GI/GIC-1000	1000	500	100	3'10"	12'0"	6"	1735
GI/GIC-2000	2000	1000	200	5'4"	12'0"	6"	2795
GI/GIC-3000	3000	1500	300	5'4"	18'0"	8"	3524
GI/GIC-4000	4000	2000	400	5'4"	24'0"	8"	5364
GI/GIC-5000	5000	2500	500	6'0"	23'10"	8"	6260
GI/GIC-6000	6000	3000	600	6'0"	28'8"	10"	7896
GI/GIC-8000	8000	4000	800	8'0"	21'4"	10"	8460
GI/GIC-10000	10000	5000	1000	8'0"	26'8"	12"	11970

**Larger sizes available upon request.*

sti-P3 and ACT-100 are registered trademarks of Steel Tank Institute. UL is a registered trademark of Underwriters Laboratories, Inc.

The General Separator is an effective, proven program that will meet or surpass accepted governmental standards. Features include:

- **Low Initial Cost**
- **Pre-packed and easily installed with no moving parts**
- **Little or no maintenance necessary**
- **Continuous or Intermittent operations capacity at temperature ranges from 40 F to 180 F**
- **Variable flow rates - 30GPM to 3000GPM**
- **Patented spiral corrugated coil helps diffuse oil particles more rapidly, making our separator more efficient than other models.**

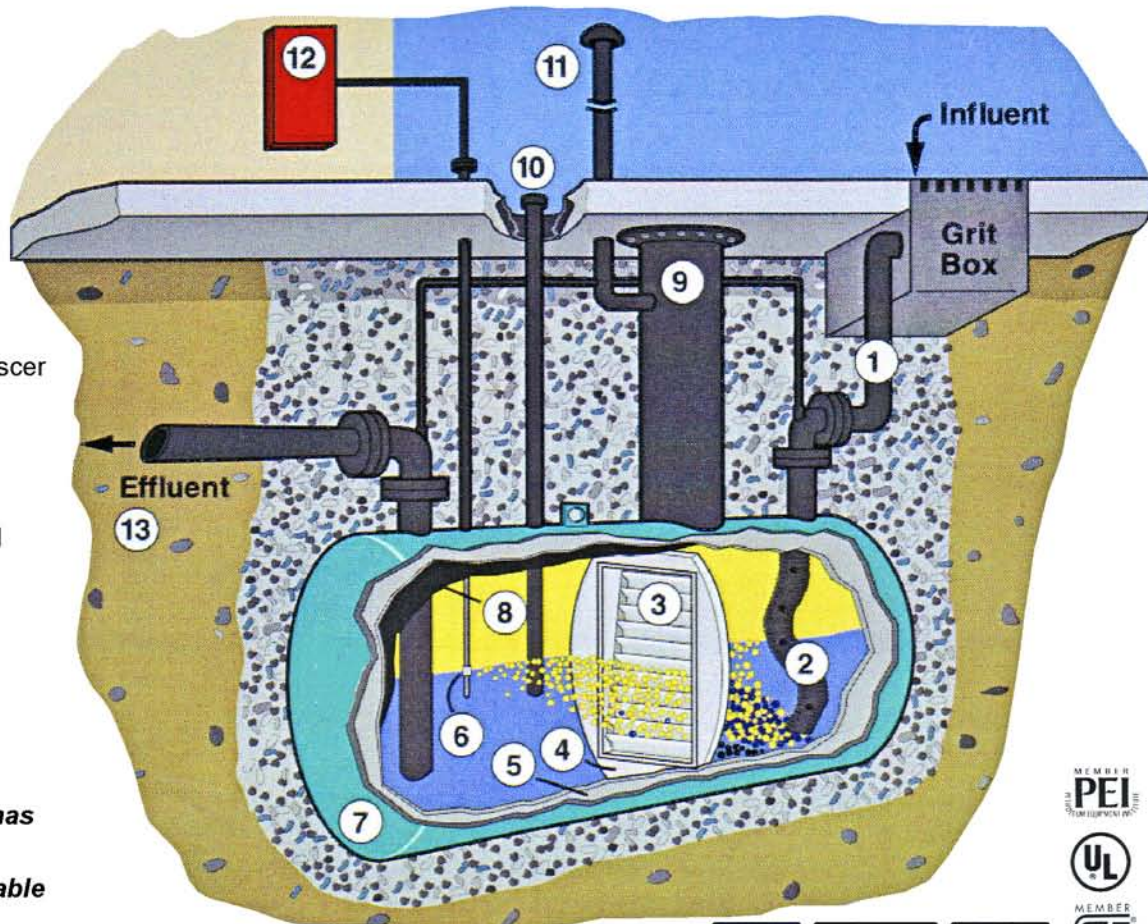


Oil / Water Separator

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.



How it works:



1. Install unit as per sti-P3[®], ACT-100[®] or ACT-100U[®] 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 parallel 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[®], ACT-100[®] or ACT-100U[®]
- 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[®], ACT-100[®] or ACT-100U[®]
- 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
- Indentical units can be skid mounted

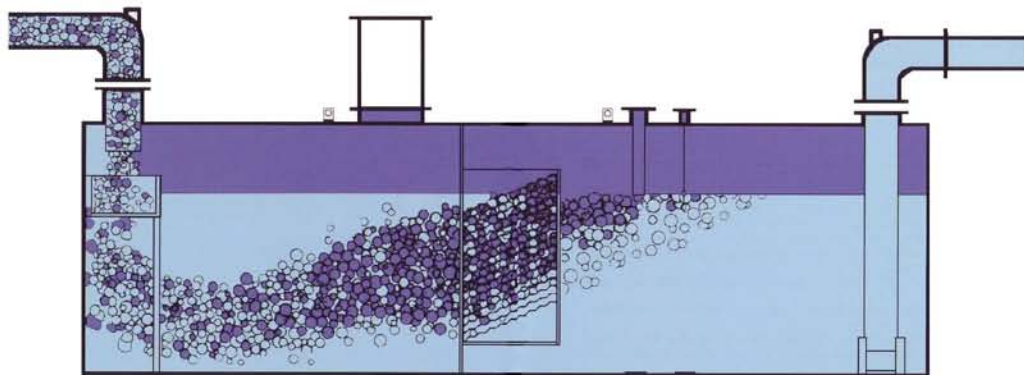
The Environmental Protection Agency (EPA), state and local government agencies have in place regulations which control, monitor and prohibit the discharge of wastewater. Some facilities which these regulations will affect include:

- | | |
|--|--|
| • 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™

NEW AND IMPROVED UL-2215



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 from 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 be 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®

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 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 path through various pre-selected coalescer materials. The AquaSweep Gravity Oil Water Separator 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



AquaSweep™
Gravity Oil Water Separator

