



ACO Environment

Oil-Water Separators & Liquid Spill Control

Product Line Overview



ACO. creating

the future of drainage

The ACO Group

Founded in 1946, the ACO Group is a world leader in drainage technology. Climate change sets us a challenge to react effectively with innovative solutions to new environmental conditions. With its integrated approach, ACO provides systems for professional surface water drainage, efficient cleaning, and the controlled discharge or reuse of water.

Products include:

- surface water drainage
- oil, sediment, heavy metal and grease separators
- detention, retention and infiltration systems
- flow control release products

Major innovative strengths of the ACO Group are its continuous research & development and technical expertise in the processing of polymer concrete, plastics, cast iron, stainless steel and cement concretes.

ACO in the USA

ACO, Inc. was founded in Ohio, 1978. Since then, continuous growth in the USA has seen the company expand and build manufacturing facilities in Mentor, OH, and Casa Grande, AZ. The company has further locations in Phoenix, AZ, and Fort Mill, SC. Today, ACO USA has sales personnel across the country and an extensive distribution network through all states, the Caribbean and Central America.

ACO Environment

As environmental pollution controls become stricter, ACO has developed products to help businesses comply with these regulations. Products are designed with easy installation, operation and maintenance in mind.



ACO Environment Products

ACO produces a range of light liquids and solids separators and spill containment systems manufactured from corrosion-resistant polymer concrete, polyethylene and other materials.

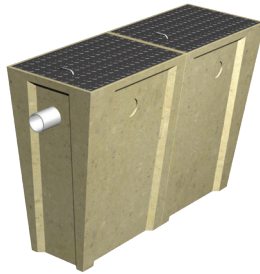
Oleopator P Coalescing Oil-Water Separator

- MDPE separator body & shaft
- 24" diameter cast iron access cover with pedestrian & heavy duty options
- Coalescing unit for oil/water separation - effluent quality of 5 ppm
- Choice of sizes to suit application (sized by through flow (l/s; gpm) and oil/sludge capacity). Maximum wet volume is 427 gal (1,616 l) per tank.
- 4" (100 mm) or 6" (150 mm) inlet and outlet pipes depending on tank size
- Float cage and float - once oil reaches 100% capacity the float will sink and close outlet pipe
- Integrated sludge trap
- Optional alarm systems for high liquid level, maximum oil and maximum solids storage capacities



Spill Control Separator

- Polymer concrete tank construction
- 220 gal (832 l) holding capacity
- Twin tank gravitation separator
- Optional riser available
- Standard and heavy duty frames and covers available
- Corrosion-resistant PVC pipe work
- 4" SCH 40 PVC inlet and outlet pipes



Spill Containment Curbs

- Polymer concrete bund curbs
- Sloping sides allow for forklift traffic access
- New or retrofit applications
- Interlocking end profiles ensure alignment and provide gap for sealant
- Choice of sizes - 12"w x 2.4"h or 24"w x 4"h for different holding capacities



Oil-Water Separators

What is an oil-water separator?

Oil-water separators remove light liquids (such as mineral oils, fuels and hydrocarbons) and suspended solids from polluted water before it is discharged into the sewer system.

When do you need an oil-water separator?

Municipal sewer bylaws and provincial/federal environmental laws describe situations where oil-water separators are required. This legislation helps to minimize water pollution and maintain clean water for society and future generations.

Why choose ACO?

- Market-leading oil separation efficiency in a compact tank
- Modern design driven by the European standard EN858 that complies with UL 2215
- Oleopator P Separators have a mechanical valve that shuts off automatically when maximum oil capacity is reached. This protects the sewer system, equipment and environment.
- Competitively priced
- Inexpensive to install and maintain
- 50 year structural warranty included that covers leakage

askACO



train



design



support



care

In addition to our products, ACO offers you our knowledge and services to jointly develop tailor-made solutions from planning to after-sales support. With our extensive network of sales and support representation, ACO strives to ensure that the needs of your project are professionally and efficiently met.

You will find further information for our products on the ACO USA website. This allows you to access technical data, images, specifications, and installation instructions during planning.

www.acousa.com



How do oil-water separators work?

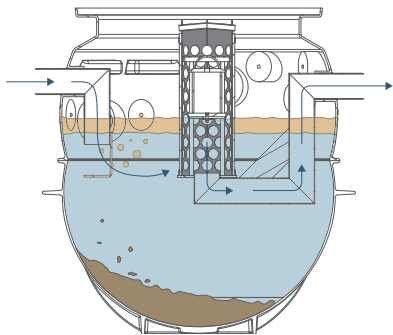
Oil-water separator operation is based on density. Oil is less dense than water, causing it to float to the water's surface. Solids, which are denser than water, sink to the bottom of the separator. The method of separation depends on the separator (coalescence, centrifugal force, gravity, etc.).

Many oil-water separators in the construction industry are simply large concrete boxes. The larger the box, the better the separation, as there is more time between inlet and outlet for the separation to occur. This time is called Retention Time. The time needed for an oil particle to rise to the surface must be shorter than the retention time, otherwise it will continue to flow through the system.

Coalescing Separator (ACO Oleopator P)

Oil particles float and combine into larger particles as they are filtered out of the water by a removable and cleanable coalescing unit. Solids sink to the bottom of the separator.

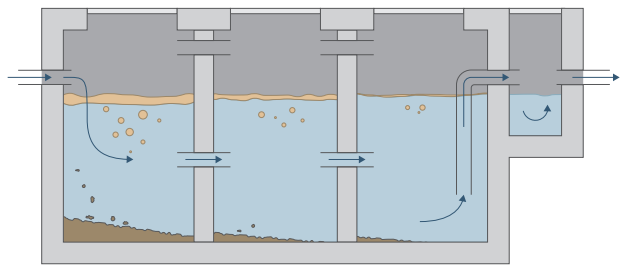
The coalescing unit makes up for a short retention time, allowing smaller tanks to still work at high efficiency.



Baffle Separator (ACO Spill Control Separator)

Baffles direct the flow of polluted water while trapping oil in high points between chambers. Solids sink to the bottom of the separator.

Multiple chambers where baffles continue to slow and direct flow increase retention time while allowing for smaller tanks.



TYPICAL APPLICATIONS

- Gas Station
- Parking Lot
- Truck Stop
- Car Dealership
- Auto Repair Shop
- Car Wash
- Bus Garage
- Military Hangar
- Fire Station
- Transformer Stations
- Tank Pits
- Airport Apron
- Waste Transfer Station
- Railway Station
- Container Port
- Industrial Facilities

Oil-Water Separator Alarms

High Liquid Alarm

Indicates that the oil capacity of the separator is close to maximum.

Exceeding oil capacity will cause the separator to fail by either allowing oil to travel through the outlet pipe or the safety float, which will back up the system.

Oil Level Alarm

Indicates the liquid water is above normal operating level.

Flooding from the separator can backflow into the building.

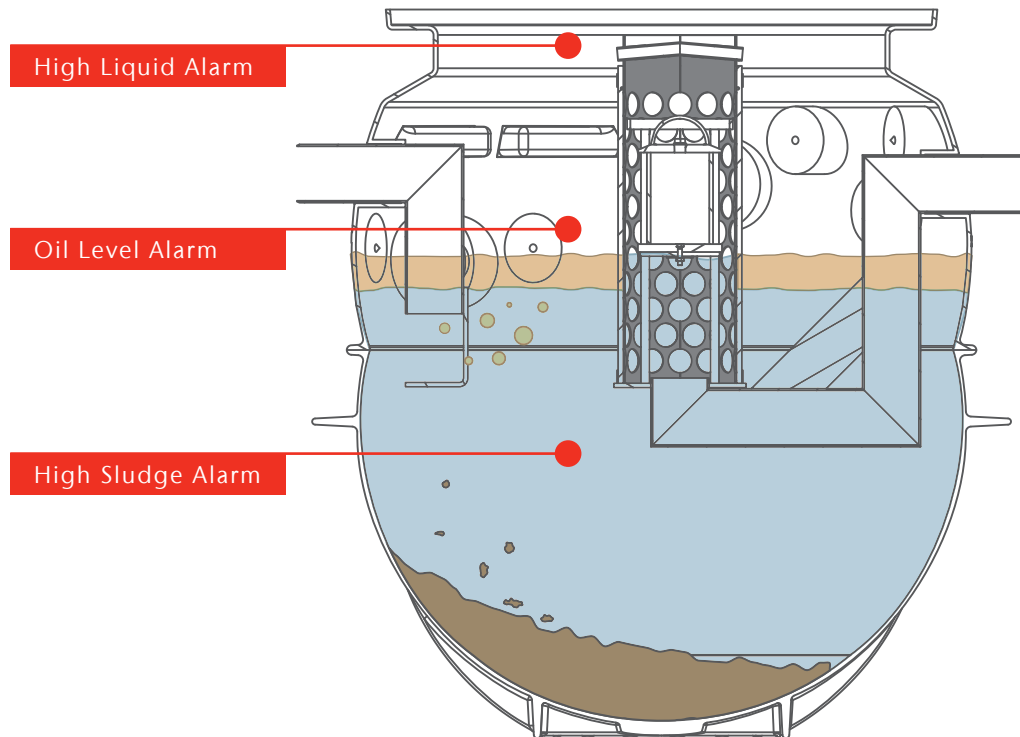
High Sludge Alarm

Indicates the level of sludge/solids in the bottom of the separator is close to maximum capacity.

Excessive sludge will block flow through the separator.



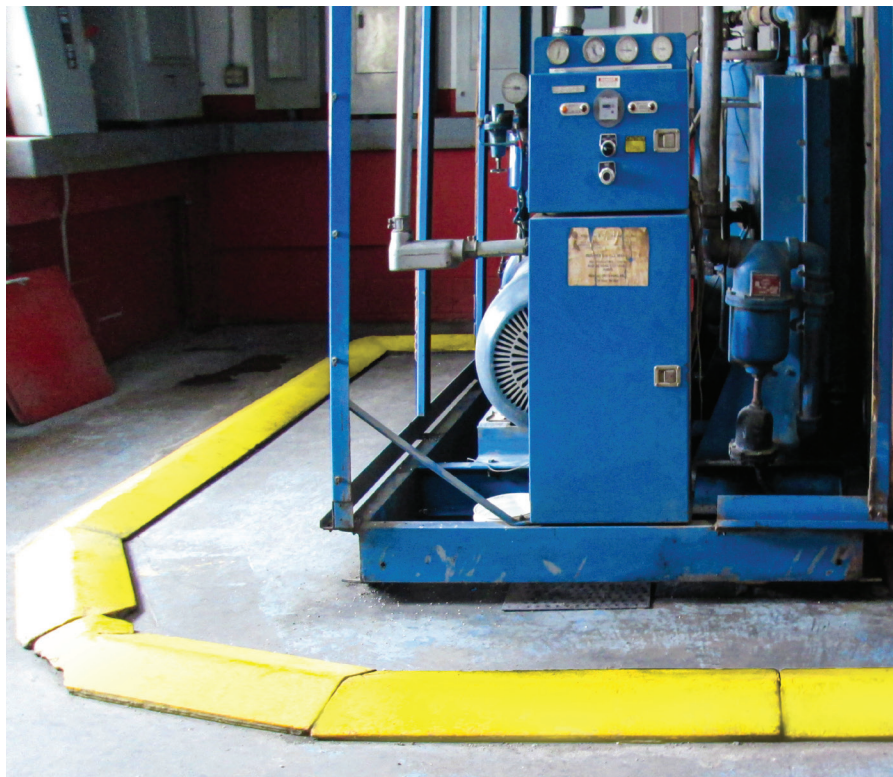
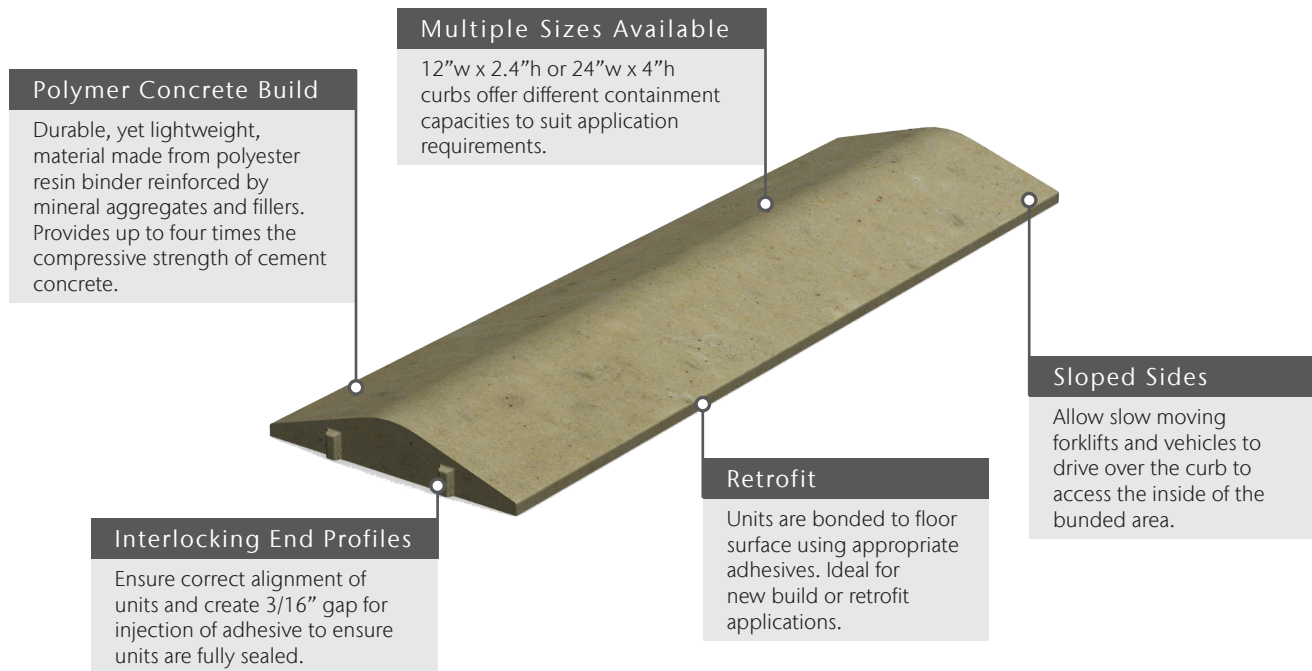
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Spill Containment Curb

ACO Spill Containment Curbs provide permanent diking protection from hazardous spill problems covering wide areas.

Units can be used across chemical containment room doorways or used to create a fully contained, bunded area for industrial facilities where chemicals are used and stored.



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- Parking Lot
- Truck Stop
- Car Dealership
- Auto Repair Shop
- Car Wash
- Bus Garage
- Military Hangar
- Fire Station
- Transformer Stations
- Tank Pits
- Airport Apron
- Waste Transfer Station
- Railway Station
- Container Port
- Industrial Facilities

ACO products support the ACO System Chain



Surface Water Management

- ACO Drain - Commercial Trench Drains
- ACO Infrastructure - Heavy Duty Drainage
- ACO Sport - Athletic Venue Drainage
- ACO StormBrixx - Geocellular Tanks
- ACO Aquaduct - Custom Drainage
- ACO Environment - Solid & Oil Separators
- ACO Wildlife - Guidance & Passage
- ACO Self - Garden & Landscape Drainage
- ACO UtilityDuct - Linear Ducting System

Building Drainage

- ACO Stainless - Stainless Trench Drains
- ACO BoxDrain - Stainless Floor Troughs
- ACO FloorDrain - Stainless Point Drains
- ACO Pipe - Stainless Push-fit Piping
- ACO ShowerDrain - Bathroom Drainage

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