

Oil Water Separator

ENHANCED HEAVY DUTY TRENCH DRAIN FORMING SYSTEMS



OIL WATER SEPARATOR



Trench Former® Oil Water Separator

The Oil Water Separator, by ABT® Inc., manufacturer of Polydrain®, is a valuable and timely addition to our product line. As environmental regulations become more stringent, separators have become a must in facilities where oil and grease are present in the drainage stream and pose a threat as a pollutant. This unique product provides static separation of solid debris, free oils or other non-soluble chemicals from drain water before discharge.

Unlike other separators, the Oil Water Separator is a light-weight, easily installed forming system. Using patented, non-floating formwork, the Oil Water Separator installs without the necessity of heavy equipment. It provides a cost-effective system of unequaled efficiency.

Product Description

The natural force of gravity separates oil, water and solid particles in the waste stream. Free oil droplets, being lighter than water, rise to the surface of the filled tank while heavier solids settle to the bottom. A baffle is used to prevent the waste stream from circumventing the system during heavy flow conditions. It also retains solids in the inlet chamber, away from the discharge opening. A pipe tee at the top of the stand pipe assembly serves as a vacuum break and as a means of examining the discharge stream. The basic system contains no moving parts. Periodic removal of captured oil and solids is the only maintenance required.

The frame rails and “no-float” legs are quickly fastened together with nuts and clips to form a lightweight, yet sturdy, assembly.

Reinforced diamond plate steel covers are designed for pedestrian or H-20 heavy-duty loading applications. All covers include retainers for security and safety. The complete Oil Water Separator assembly includes all piping and fittings.

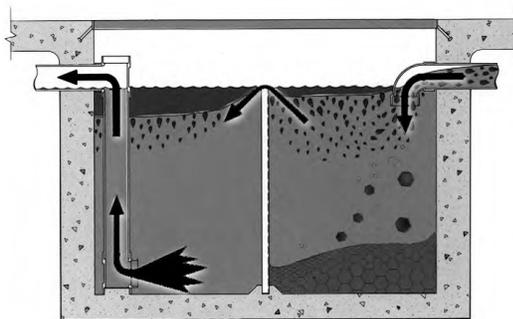
A pre-cut, expanded polystyrene (EPS) form is used to create the correctly-shaped cast-in-place concrete tank. Cutouts in the form locate inlet and outlet pipe positions and form a slot for the insertable overflow baffle.

The Oil Water Separator form is positioned and restrained from flotation by a 1 3/4" x 1 3/4" x 3/16" structural steel angle frame with welded anchor studs and “no-float” leg brackets attached.

The Oil Water Separator is the natural choice for high-performance requirements, such as:

- Bus barns
- Auto repair facilities
- Parking areas
- Gasoline stations
- Chemical transfer
- Airports stations
- Landfills
- Oil storage areas
- Refueling depots

.... anywhere petroleum contaminants must be isolated and removed.



Standard Features

- Three storage capacities – 160, 240 and 320 gallon
- Three flow capacities – 21, 31, and 42 gallon
- Full perimeter steel anchor frame
- Patented no-float installation legs
- Internal PVC piping and fittings
- Performed deforming grooves
- Full width overflow weir to maintain laminar fluid flow
- Ability to inspect discharge stream



System Specifications

Part Number	Storage Capacity	API Design Capacity	Dimensions (wxdxl)	I/O Invert	Installation Wt w/o Cover	Shipping Weight
	gal (ltr)	gpm (lpm)	in.	in. (mm)	lbs (kg)	lbs (kg)
S160	160 (600)	21 (79)	23x48x48	12 (305)	75 (34)	235 (107)
S240	240 (900)	31 (119)	23x48x72	12 (305)	115 (52)	310 (141)
S320	320 (1200)	41 (158)	23x48x96	12 (305)	150 (68)	390 (177)

Suggested Specification: Please refer to the Specification Writer on the ABT Inc. website: www.abtdrains.com

Custom Separators

Some separation requirements extend beyond the capabilities of the standard Trench Former Oil Water Separator. We can provide a number of options to accommodate specific needs. The following modifications and accessories are available on a custom basis:

- 25 mil reinforced geomembrane containment barrier
- Special capacities and dimensions
- Internal oil storage
- Multiple and diffuser baffles
- Second liner allowing for additional leak detection



The information contained within is believed to be accurate but not guaranteed to be so. The customer should evaluate the suitability and safety of these products for any application. ABT assumes no liability for the end results since the conditions of installation and use are beyond the control of ABT. Concrete specifications, placement, reinforcement and structural considerations are the responsibility of the customer. ABT reserves the right to change the price, availability, specifications, and content of any of its products, literature or other information in all media at any time without notification.

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