ACO Environment

Oleopator P Series

Polyethylene Body Coalescing Oil-Water Separator



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.

Typical applications include:

- Car washes
- Truck stops
- Gas stations
- Wash-down areas
- Heavy-duty industrial areas



Olepator P Series

The ACO Oleopator P is a range of light liquid separators that allows suspended solids and hydrocarbons to be separated out simultaneously in one tank. They are designed to achieve high performance at large flows in a compact polyethylene tank. This process uses gravitation and coalescence principles to separate contaminated water into 3 components:

- Clean Water
- Oils
- Sludge

The ACO Oleopator P separators are designed and constructed to comply with EN 858 standards and are CE marked and independently tested for hydraulic performance and structural stability. All separators include, as standard features, coalescing units and automatic outlet closing devices for situations when maximum oil storage capacities are exceeded.





The coalescing unit traps oil drops that are too small to float to the surface and coalesces them together to form larger oil drops capable of being separated out. This coalescing unit consists of a cylindrical HDPE supporting basket, wrapped with a coalescence mat, centrally positioned around the float cage.



Alarm sensor systems are available to notify personnel when maintenance is required. Oil level sensors are required for compliance with UL 2215.

Features & Benefits



Optional Extras:

Alarm systems available for high liquid level, maximum oil and maximum solids storage capacities reached

- Remote emptying system
- HDPE sampling chamber

Oleopator P Body





Model No.	Part No.	Maximum Flow* gpm (L/s)	D (Pipes Size) in (mm)	Solids Trap Volume gal (L)	Oil Storage Volume gal (L)	Total Capacity gal (L)	H in (mm)	H1 in (mm)	H2 in (mm)	Wgt Ibs
NS3/450	3903.80.00	50(3)	4 (100)	119 (450)	64 (240)	205 (775)	54 (1,377)	40 (1,020)	39 (1,000)	147.4
NS3/670	3913.80.00	50(3)	4 (100)	177 (670)	64 (240)	263 (995)	63 (1,594)	48 (1,230)	48 (1,210)	182.6
NS3/950	3923.80.00	50(3)	4 (100)	251 (950)	64 (240)	339 (1,280)	74 (1,865)	59 (1,500)	58 (1,480)	184.8
NS6/660	3906.80.00	95 (6)	6 (150)	175 (660)	62 (235)	257 (970)	63 (1,594)	48 (1,210)	47 (1,190)	200.2
NS6/1210	3916.80.00	95 (6)	6 (150)	320 (1,210)	62 (235)	404 (1,525)	84 (2,129)	69 (1,740)	68 (1,720)	222.2
NS10/1080	3910.80.00	160 (10)	6 (150)	286 (1,080)	69 (260)	427 (1,615)	84 (2,129)	69 (1,740)	68 (1,720)	231.0

*Maximum flow indicated is for optimum performance - under 0.00004173 lb/gal (5mg/L) hydrocarbons in effluent; higher flows can run through separator

Cover & Extension Shaft



shown with extension shaft



Heavy Duty Cover shown with extension shaft and load distribution plate (by others)

	Part No.	NS3/450	NS3/670	NS3/950	NS6/660	NS6/1210	NS10/1080	Wgt Ibs	
PEDESTRIAN DUTY									
T in (mm)	3301.14.00		16.5 (420)			319.0			
	3301.14.01	28.7–40.6 (730–1030)			29.5	374.0			
	3301.14.02	28.7	-59.4 (730-1	510)	29.5	424.6			
HEAVY DUTY									
T in (mm)	3910.80.00	34.0–69.7 ((865–1770)	34.8–59.0	(885–1500)	34.8–73.2 ((885–1860)	627.0	

Oleopator Alarm System

The optional alarm system makes separator operation even easier and ensures compliance with UL2215. It does not replace the visual maintenance but ensures timely disposal of oil and/or sludge to guarantee correct operation of the system.

- Oil Alarm alerts when oil has reached 80% maximum capacity (once oil reaches 100% capacity the float will sink and close the outlet pipe). The oil level sensor is also able to identify if the tank has failed and liquids are leaking into the ground by alarming when not submerged in liquid (i.e. liquids are leaking out of tank).
- Sludge Alarm alerts when sludge has reached a specified capacity (recommend 50% maximum capacity). Excessive sludge will affect separator performance and immediate maintenance may be required.
- **High Level Alarm** alerts when liquids in the separator reach a specific level indicating that the outlet pipe is blocked.

When any of these events occur a signal is sent to the central control panel or building management system, which can send out audio, visual and SMS alerts to ensure maintenance can be carried out before the separator system fails.



	Part No.	Wgt Ibs
ACO Oilset 1000 Oil Alarm - (1) Sensor	96078	7.0
ACO Sandset 1000 Sludge Alarm - (1) Sensor	96079	7.0



Oleopator Sampling Chamber

The ACO Oleopator P sampling chamber offers a compact, rotationally-molded HDPE body with an adjustable-height access cover shaft.

The chamber is positioned downstream from the separator, providing access to the discharge from the separator and allowing water quality testing to be performed.

The chamber can also be positioned upstream from the separator to act as an inspection chamber, providing access to the system inlet pipe.

Class B Installations - installation depth (E) can be between 25.6"–47.25" (650 mm–1200 mm). Inlet depth (T) is 17.32"–44.1" (440 mm–1120 mm).

Class D Installations - installation depth (E) can be between 29.5"–59.0" (750 mm–1500 mm). Inlet depth (T) is 21.25"–55.9" (540 mm–1420 mm).



	Part No.	H1 in (mm)	H2 in (mm)	L1 in (mm)	Wgt Ibs
Sampling Chamber - 4" (100 mm) Pipe, 6.3" (160 mm) Gradient	3903.80.00	54 (1,377)	40 (1,020)	39 (1,000)	147.4
Sampling Chamber - 4" (100 mm) Pipe, 1.2" (30 mm) Gradient	3913.80.00	63 (1,594)	48 (1,230)	48 (1,210)	182.6
Sampling Chamber - 6" (100 mm) Pipe, 6.3" (160 mm) Gradient	3923.80.00	74 (1,865)	59 (1,500)	58 (1,480)	184.8
Sampling Chamber - 6" (100 mm) Pipe, 1.2" (30 mm) Gradient	3906.80.00	63 (1,594)	48 (1,210)	47 (1,190)	200.2
Extension Shaft - 4.0"–25.6" (100 mm–650 mm)	3916.80.00	84 (2,129)	69 (1,740)	68 (1,720)	222.2
Sampling Equipment*	3910.80.00	84 (2,129)	69 (1,740)	68 (1,720)	231.0

*Sampling equipment consisting of manual pump and suction coupling, connecting hose and suction coupling and bolt connection. Suitable for inlet invert maximum T = 118" (3,000 mm)

System Layout



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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