



ACO ENVIRONMENT

Oleopator P Leaflet

Polyethylene Body Coalescing Oil-Water Separator

The ACO Group

Founded in 1946, the ACO Group manufactures products for the building and construction industry.

Today, ACO employs over 5,000 people world-wide and has sales and manufacturing operations in more than 40 countries.

ACO is the pioneer and world leader of modular trench drain systems. ACO drainage systems are used in a variety of applications from domestic environments to airports. ACO products have been used at many prestigious locations, including Olympic stadiums, since 1972.



ACO Environment

In a world where environmental pollution controls are becoming stricter, ACO has developed products to help businesses comply with these regulations. Products are designed with easy installation, operation and maintenance in mind to ensure full customer satisfaction.

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

ACO. creating the future of drainage



System Chain

ACO is a global leader in surface water management. With products to collect, clean, hold and release water, ACO addresses all phases of the water cycle and supporting sustainable drainage (SD, SUDS), Low Impact Development (LID) and LEED principles.



Collect

*Trench drains
Catch basins*



Clean

*Oil/water
separators*



Hold

*Detention/
Retention devices*



Release

*Infiltration systems
Flow control*

Typical Applications



Car wash



Service depot

Installation



Oleopator P

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

All separators include, as standard features, coalescing units and automatic outlet closing devices for situations when maximum oil storage capacities are exceeded.

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.

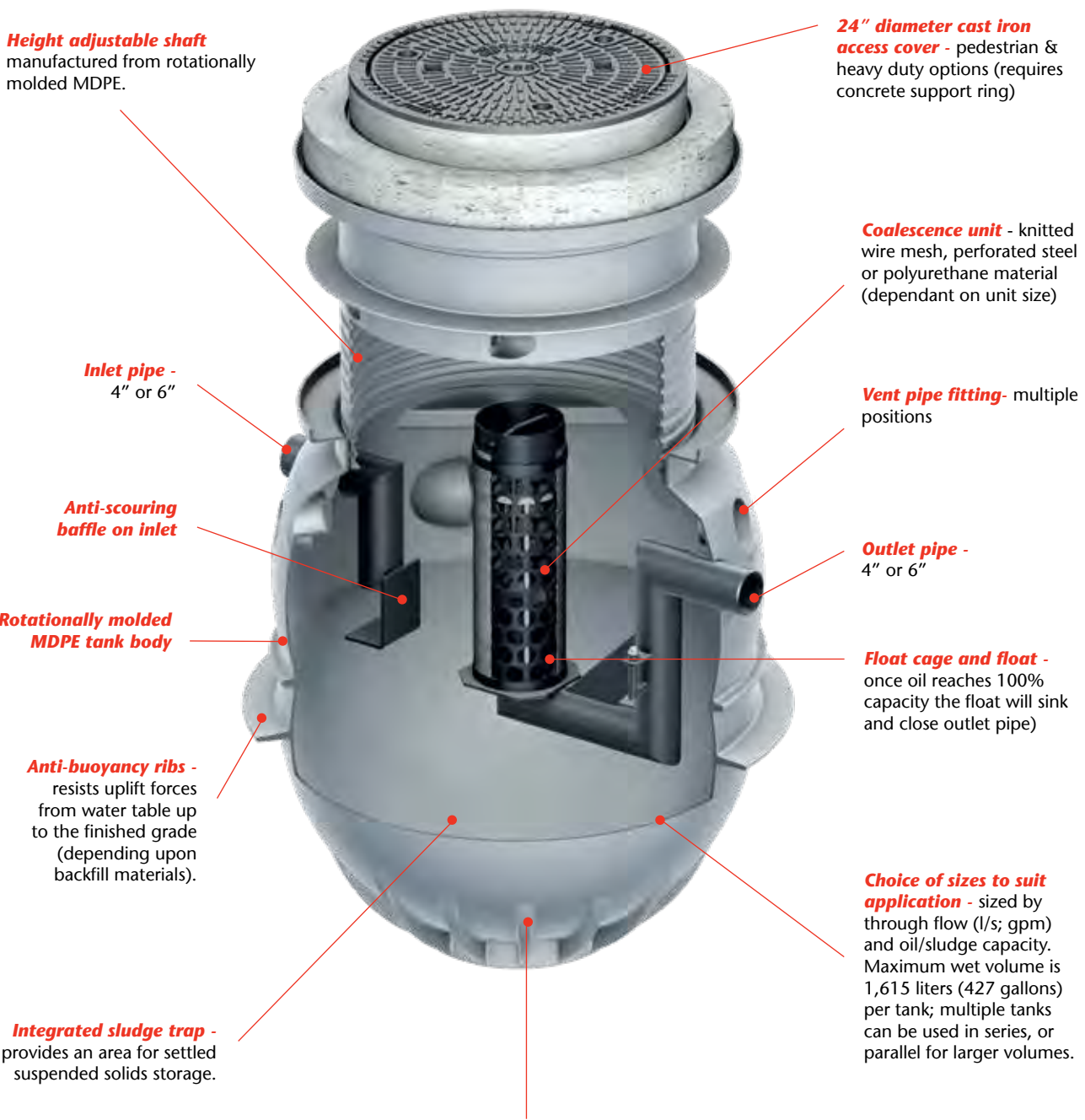
Alarm sensor systems are available to notify personnel when maintenance is required. Oil level sensors are required for compliance with UL 2215.

All tank units use a coalescing unit which 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.

Capable of achieving effluent quality of 5 parts per million (ppm).



Oleopator P Features



Height adjustable shaft
manufactured from rotatorially molded MDPE.

24" diameter cast iron access cover - pedestrian & heavy duty options (requires concrete support ring)

Coalescence unit - knitted wire mesh, perforated steel or polyurethane material (dependant on unit size)

Inlet pipe - 4" or 6"

Vent pipe fitting- multiple positions

Anti-scouring baffle on inlet

Outlet pipe - 4" or 6"

Rotatorially molded MDPE tank body

Float cage and float - once oil reaches 100% capacity the float will sink and close outlet pipe)

Anti-buoyancy ribs - resists uplift forces from water table up to the finished grade (depending upon backfill materials).

Choice of sizes to suit application - sized by through flow (l/s; gpm) and oil/sludge capacity. Maximum wet volume is 1,615 liters (427 gallons) per tank; multiple tanks can be used in series, or parallel for larger volumes.

Integrated sludge trap - provides an area for settled suspended solids storage.

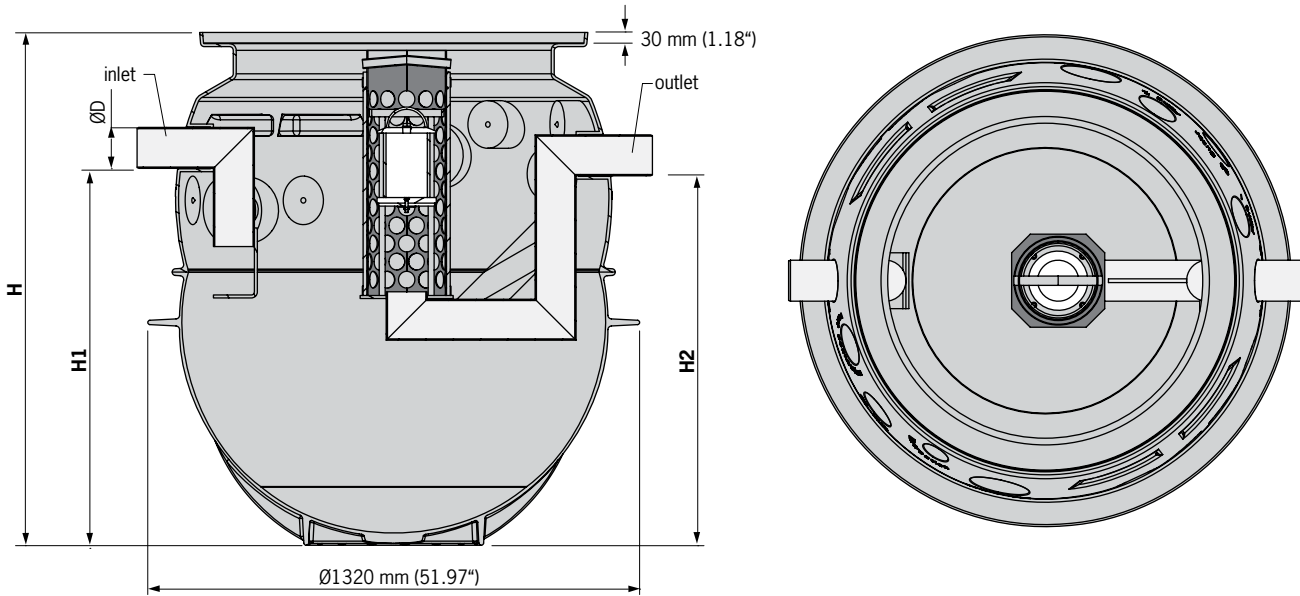
Compact design
reduces excavation and installation costs. Structural stability guaranteed for 50 years.

Optional extras

- Alarm systems available for high liquid level, maximum oil and maximum solids storage capacities reached
- Remote emptying system
- HDPE sampling shaft



Tank Details

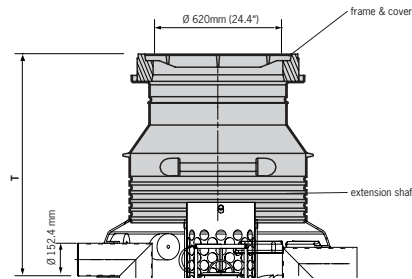


Model number	Maximum flow* l/s (gpm)	Pipes size D mm (in)	Volume solids trap L (gal)	Volume oil storage L (gal)	Total capacity L (gal)	H mm (in)	H1 mm (in)	H2 mm (in)	Wgt kg (lbs)	Part No.
NS3/450	3 (50)	100 (4)	450 (119)	240 (64)	775 (205)	1,377 (54)	1,020 (40)	1,000 (39)	66.8 (147.4)	3903.80.00
NS3/670	3 (50)	100 (4)	670 (177)	240 (64)	995 (263)	1,594 (63)	1,230 (48)	1,210 (48)	82.8 (182.6)	3913.80.00
NS3/950	3 (50)	100 (4)	950 (251)	240 (64)	1,280 (339)	1,865 (74)	1,500 (59)	1,480 (58)	83.8 (184.8)	3923.80.00
NS6/660	6 (95)	150 (6)	660 (175)	235 (62)	970 (257)	1,594 (63)	1,210 (48)	1,190 (47)	90.8 (200.2)	3906.80.00
NS6/1210	6 (95)	150 (6)	1,210 (320)	235 (62)	1,525 (404)	2,129 (84)	1,740 (69)	1,720 (68)	100.7 (222.2)	3916.80.00
NS10/1080	10 (160)	150 (6)	1,080 (286)	260 (69)	1,615 (427)	2,129 (84)	1,740 (69)	1,720 (68)	104.7 (231.0)	3910.80.00

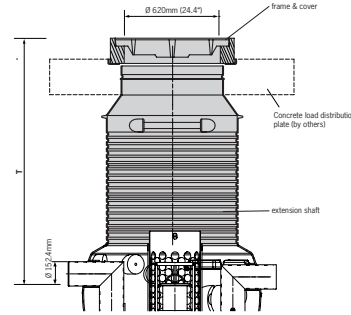
* Maximum flow indicated is for optimum performance - under 5 mg/L (0.00004173 hydrocarbons in effluent; higher flows can run through separator

Cover & Extension

Shaft Details



Pedestrian duty cover
(shown with extension shaft)



Heavy duty cover
(shown with extension shaft and load distribution plate - by others)

	NS3/ 450	NS3/ 670	NS3/ 950	NS6/ 660	NS10/ 1080	NS6/ 1210	Wgt kg (lbs)	Part No.
Pedestrian duty								
T	585 (23.0)	585 (23.0)	585 (23.0)	605 (23.8)	605 (23.8)	605 (23.8)	244 (538)	418969
mm	900-1010 (35.4-39.8)	900-1010 (35.4-39.8)	900-1010 (35.4-39.8)	920-1040 (36.2-41.0)	920-1040 (36.2-41.0)	920-1040 (36.2-41.0)	202.8 (92)	418970
	890-1980 (35.0-78.0)	900-1770 (35.4-69.7)	900-1500 (35.0-59.0)	920-2090 (36.2-82.3)	920-1860 (36.2-73.2)	920-1860 (36.2-73.2)	111 (244.7)	418971
Heavy duty								
T	870-1980 (34.0-77.9)		900-2040 (35.4-80.3)		900-1860 (35.4-73.2)		196 (432.0)	418972
in (mm)								



Oleopator Accessories

Alarms

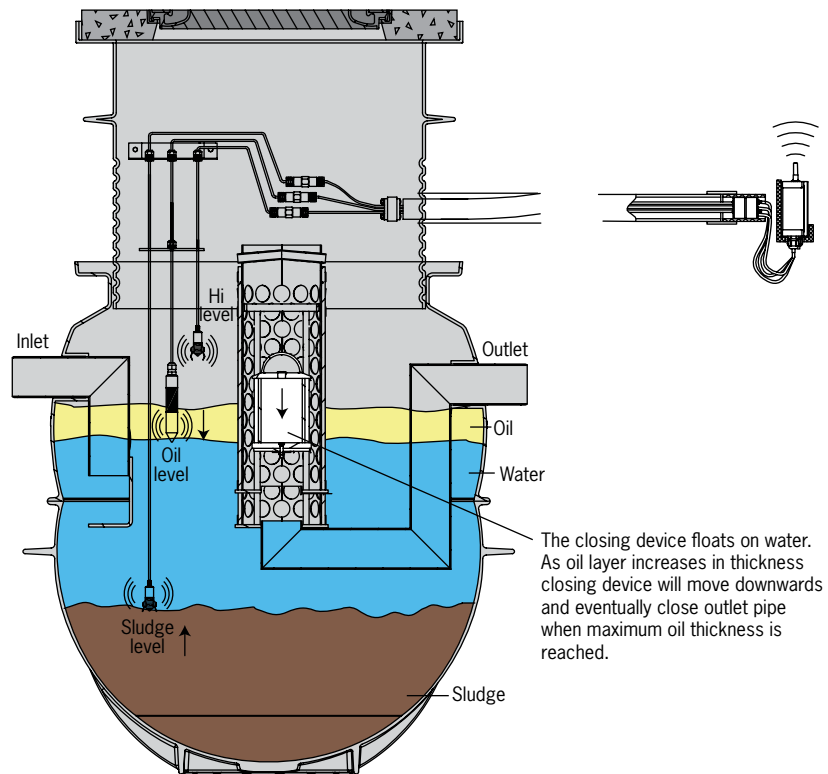
The optional alarm system makes separator operation even easier and ensures compliance with UL2215.

It does not replace the visual maintenance but ensures timely disposal of oil and/or sludge to guarantee correct operation of the system.

The sensors will alert when;

- 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 - it will alert if not submerged in liquid (ie - 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
- Hi 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.



Description	Part No.	Weight kg (lbs)
ACO Oilset 1000 oil alarm (1 sensor)	96078	3.2 (7.0)
ACO Sandset 1000 sludge alarm (1 sensor)	96079	3.2 (7.0)
ACO Set-2000 high level/oil alarm (2 sensors)	96080	3.2 (7.0)



Sample Shafts

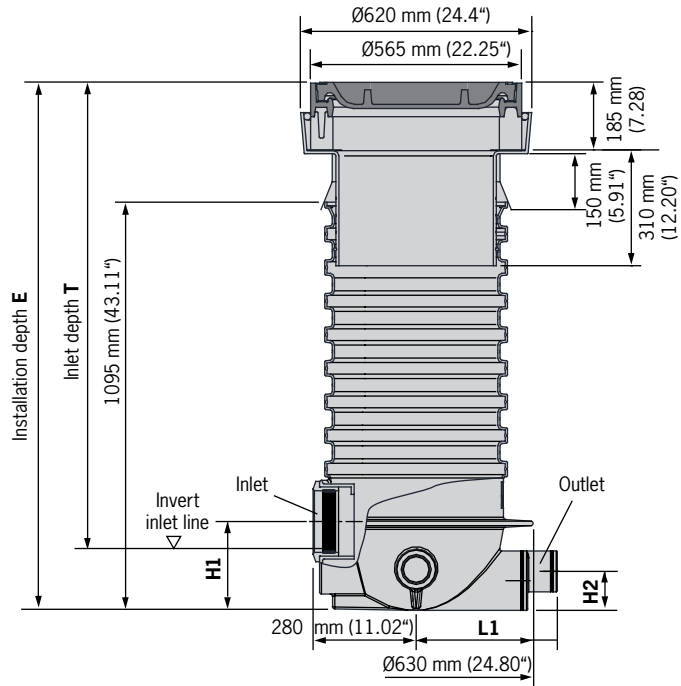
The ACO Oleopator P sampling unit offers a compact rotationally molded HDPE body with adjustable height access cover shaft.

As a sampling shaft it is positioned downstream from the separator and provides access to the discharge from the separator and allows water quality testing to be performed.

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

Class B installations the Installation depth 'E' can be between 650 mm-1200 mm. (25.6" - 47.25") Inlet depth 'T' is 440 mm -1120 mm (17.32" - 44.1").

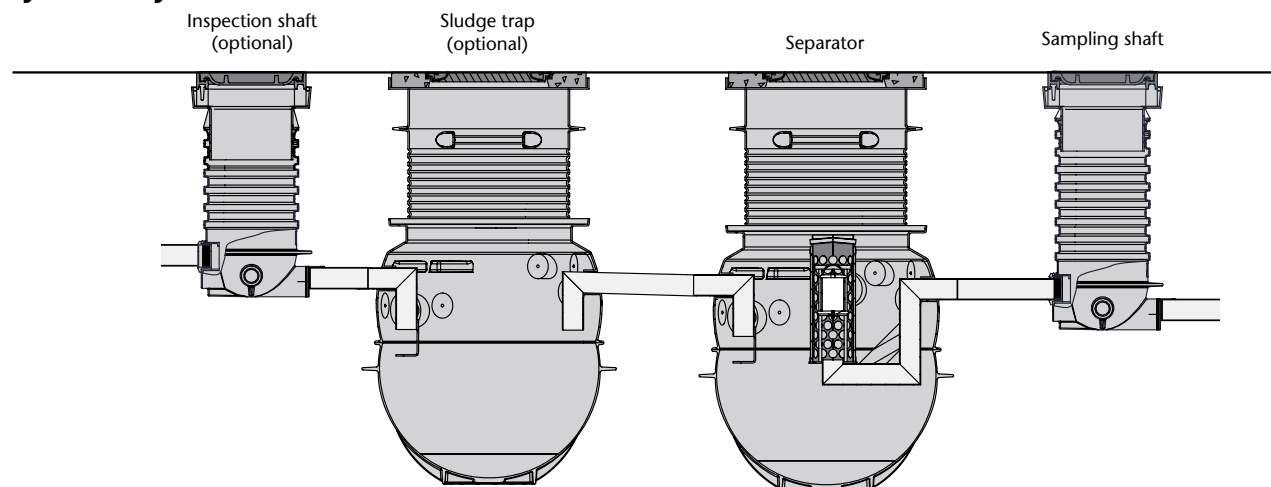
Class D installations the Installation depth 'E' can be between 750 mm-1500 mm (29.5" - 59.0"). Inlet depth 'T' is 540 mm -1420 mm (21.25" - 55.9").



Description	Part No.	Wgt kg	H1 mm (in)	H2 mm (in)	L1 mm (in)
Sampling chamber - 100mm pipe 160mm gradient (4" pipe 6.3" gradient)	3300.13.10	119.7	138 (5.43)	105 (4.13)	380 (14.96)
Sampling chamber - 100mm pipe 30mm gradient (4" pipe 1.2" gradient)	3300.13.11	119.7	258 (10.16)	105 (4.13)	380 (14.96)
Sampling chamber - 150mm pipe 160mm gradient (6" pipe 6.3" gradient)	3300.13.20	120.2	155 (6.10)	80 (3.15)	300 (11.81)
Sampling chamber - 150mm pipe 30mm gradient (6" pipe 1.2" gradient)	3300.13.21	120.2	239 (9.41)	80 (3.15)	300 (11.81)
Extension shaft - 100mm - 650mm (4.0 - 25.6")	3300.13.00	11.3	-	-	-
Sampling equipment*	8800.00.10	2.5	-	-	-

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

System Layout



Other ACO products

External drainage

ACO Sport

Surface drainage and building accessories for track & field.

ACO Infrastructure

Surface drainage products engineered for highways, urban roads and bridges.

Aquaduct

Custom design and manufacture of fiberglass trench drain systems.

ACO Duct

Linear ducting system with removable solid covers.

ACO Environment

Oil water separators and spill containment systems.

ACO Wildlife

Tunnel and fence system to guide amphibians and other small creatures safely across roads.

ACO StormBrixx

A unique and patented plastic geocellular storm water management system.

ACO Self

Simple drainage and building components for use around the home, garden and office.

Building drainage

ACO Stainless

Stainless steel trench drains.

ACO Floor Drain

Stainless steel floor drains.

ACO BuildLine

Drainage products for thresholds, balconies, green roofs and building façades.

ACO Pipe

Stainless steel push-fit pipe system.

ACO ShowerDrain

Shower drainage.

QuARTz

Designer bathroom floor drainage solutions.

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Re-order Part # CEL003 v1.0

