# Oil separator

## Standards | Quality charter | CE D.O.P | Operation

## 1 | Standards

The production of oil separator complies with European standard EN 858.:

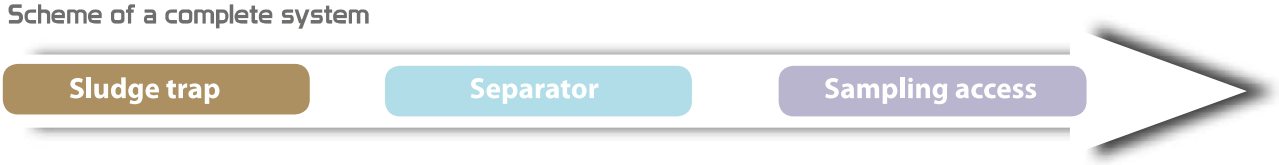
- **EN 858-1**

"Principles of product design, performance and testing, marking and quality control"

- **EN 858-2**

"Separator systems for light liquids (e.g. oil and petrol)" – Part 2: Selection of nominal size, installation, operation and maintenance."

Scheme of a complete system




### 1.1 • The volume of a sludge trap according to the standard

Definition taken from the standard EN 858-1:
"The sludge trap is the part of the separator where material settles i.e. sludge, silt and grit. It can be constructed with the separator as a combined unit".
"The value retained for the sizing of the sludge trap can vary according to the standard NF EN 858-2. Below the section from paragraph 4.4 and the table to be used to establish this value:"

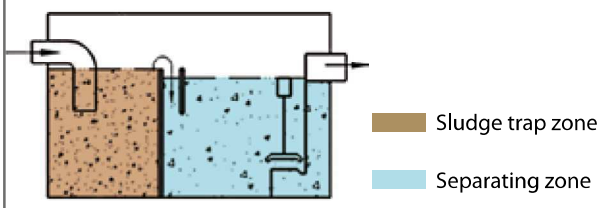
| Quantity of sludge anticipated for e.g.: | | Minimum sludge trap volume *l* |
|---|---|---|
| None | - condensate | Not required |
| Small [1] | - processing waste water with defined small sludge volume<br>- all rainwater collecting areas where a small amount of silt from traffic or similar appears. i.e. catchment basins on petrol tank areas and covered filling stations | $\frac{100 \times NS}{f_d}$ |
| Medium [2] | - filling stations, carwash by hand, part washing<br>- bus washing places<br>- waste water from garages, vehicle parking lots<br>- power plants, machinery plants | $\frac{200 \times NS}{f_d}$ |
| High [2] | - washing plants for site vehicles, site machines, farm machines<br>- truck wash places<br>- automatic car washes i.e. roll-over, drive-through (minimum sludge trap volume 5000 l) | $\frac{300 \times NS}{f_d}$ |

1) Not for separators smaller than or equal *NS* 10, except for covered car parks
2) Minimum volume of sludge traps 600 l.

### 1.2 • The volume of a separator according to the standard

On the sole basis of purification effectiveness, the NF EN858-1 standard does not define a minimum volume of the separation chamber: "the separator is the part of the separator system which separates light liquid from waste water and retains light liquid".

Schematic drawing of an oil separator with an integrated sludge trap




*The automatic closure device prevents any accidental discharge of free decanted hydrocarbons into the downstream pipeline.*

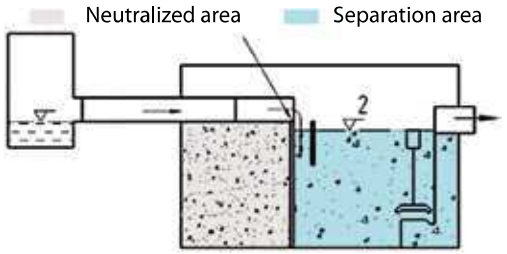
# Oil separator

## Standards | Quality charter | CE D.O.P. | Operation

In order to validate the purification effectiveness of an oil separator, the manufacturer must test it on a **test bench according to the paragraph 8.3.3 from NF EN 858-1 Standard.**

The volume of the sludge trap shall be excluded as shown in the opposite diagram.
The standard underlines the fact that "the design shall also ensure that any separated and retained light liquid is not disturbed".
That is the reason why only the volume of the separation chamber must be taken into account for the classification of the apparatus, i.e. discharge <100 mg/l or 5 mg/l.

Schematic drawing of an oil separator (with only one separation chamber)




### 1.3 • The warning device according to the standard

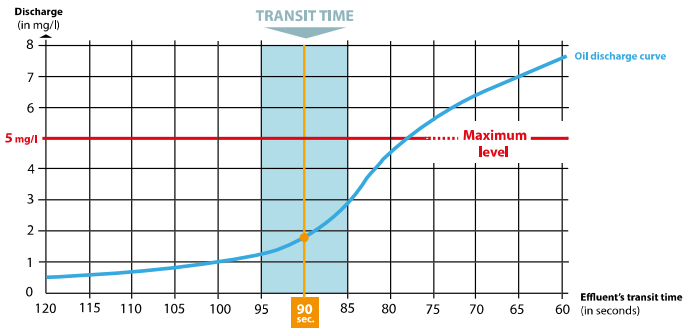
**Compulsory in accordance with the NF EN 858-1 6.5.4: "Separator systems shall be provided with automatic warning devices…"**
They allow the detection of a certain level of hydrocarbons and/or sludge in the separator. A visual and/or acoustic warning device is activated once the selected level is reached.

## 2 | Technaeu Recommendations

### 2.1 • Size of a separator according to the charter

For the equipment with a chamber of separation only, the total useful volume of the apparatus will be at least:

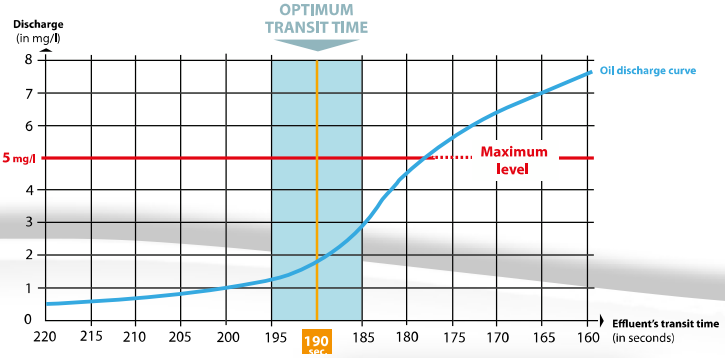
**Useful volume of a separator =**
**90 sec. × NS of the apparatus**




### 2.2 • Sizing of a separator with both sludge trap and separation chamber according to the charter

For this type of equipment the total useful volume will be at least:

**Useful volume of a separator with sludge trap =**
**190 sec. × NS of the apparatus**



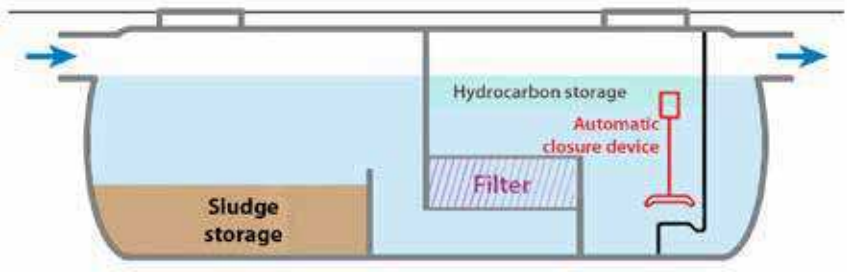
# Oil separator

## Standards | Quality charter | CE D.O.P | Operation

### 2 | Technaeu Recommendations (continued)

Techneau recommends "a minimum required useful volume" for an optimum treatment and storage of hydrocarbon, e.g. for a nominal size of 100 l/sec., the minimum total useful volume must be equal to:

100 l/s × **190 s** = 19 000 litres **for a separator with sludge trap.**




Below this value, the separator's effectiveness itself is in question as **risks of later release are very high.**


### 3 | Declaration of Performance (D.O.P) CE

The manufacturer must be able to provide on simple request "the quality control documents…from the arrival of raw materials through to the final product leaving the factory".

On the basis of a **quality system in place,** the manufacturer can issue certificates of conformity authorising the affixing of CE marking.

This level 4 certification is based on the manufacturer's declaration only and does not depend on an external body.

The application of the CE marking is compulsory since the 1st of September 2006. It is regulated by the annex ZA of the NF EN 858-1/A1 February 2005. The certificate of conformity D.O.P is compulsory since the 1st of July 2013. Every product has to be with its D.O.P. which includes CE marking too. The certificate of conformity must include the following elements:

| ***Product*: Installation of light liquids separation (for example hydrocarbons) treated in the application area of the norm.**<br>***Predicted use*: Light liquids separation for residual waters to protect waste water systems and surface waters.** | | | |
|---|---|---|---|
| **Main parameters** | **Requirements from the actual norm** | **Levels or classes** | **Results** |
| Fire reaction | 6.2.8 | A.1 to F | - |
| Liquids reaction | 6.3.2 | None | Yes / No |
| Efficiency | 4, 6.3.1, 6.3.3 to 6.3.8, 6.5 | Class I or II | Yes / No |
| Load capacity | 6.4 | 1a to 1d | Yes / No |
| Durability | 6.2 | None | Yes / No |

# Oil separator

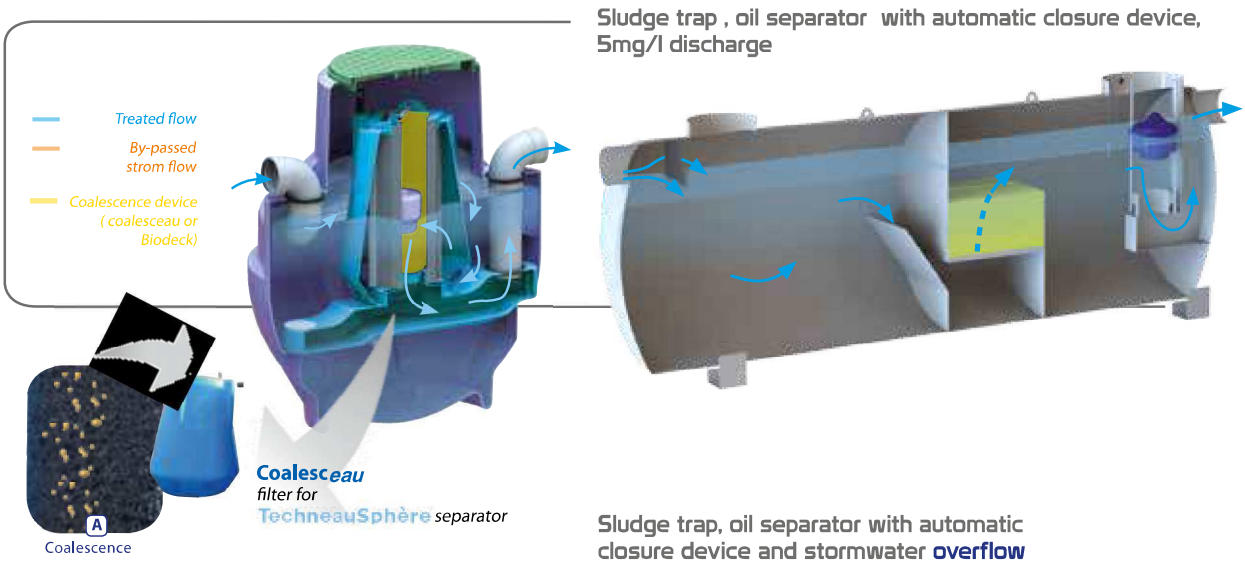


## 4 | Operation principles

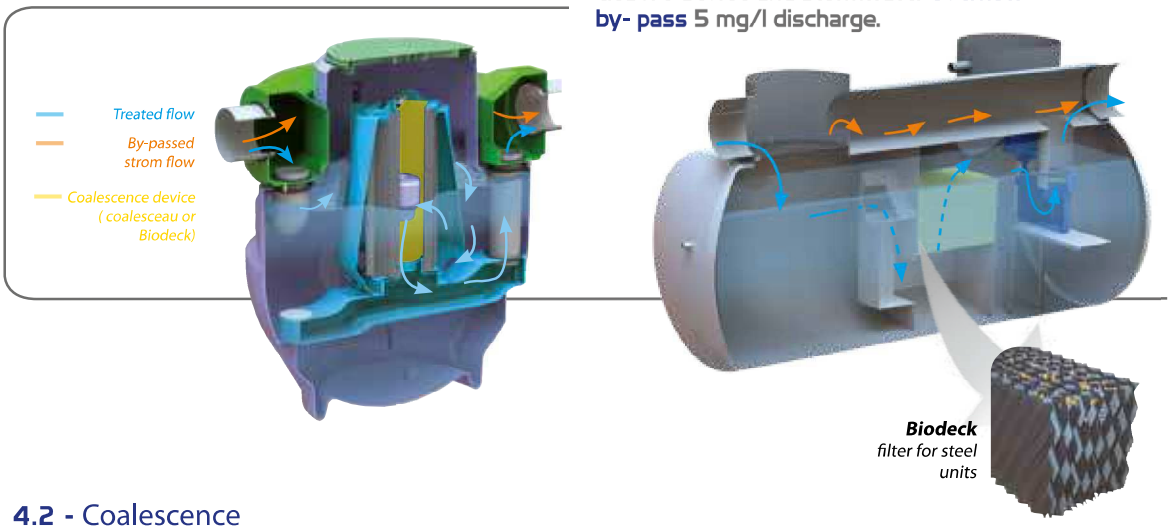
### 4.1 - Hydraulic flow

Block diagrams of a water treatment apparatus type:

Sludge trap , oil separator with automatic closure device, 5mg/l discharge




Sludge trap, oil separator with automatic closure device and stormwater **overflow by- pass** 5 mg/l discharge.



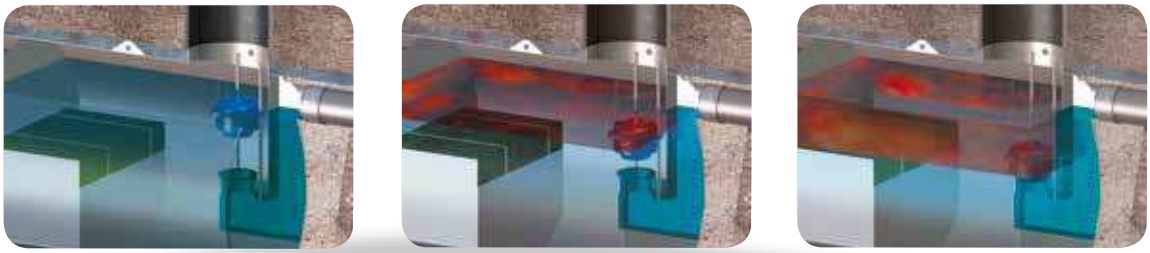

### 4.2 - Coalescence

The turbulent flow allows the light liquid droplets to merge together through the filter. This increases their volume and thus boosts the flotation. ( see detail schema (A)).

### 4.3 - Automatic closure device

Positionned dowstream the separation chamber of light liquids, it prevents any accidental release of decanted free hydrocarbon into the downstream network. It is equipped with a siphon bend linked to a float calibrated in accordance with the density of the light liquids to be trapped.

Its operation principle is the following: The float sinks in hydrocarbons and floats in water.



**Step 1** **Step 2** **Step 3**

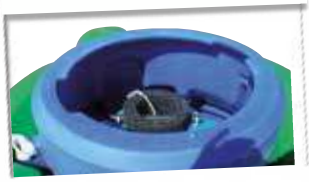
# Oil separator



## 5 - Polyethylene TechneauSphère Range: A concentration of innovations

NEW

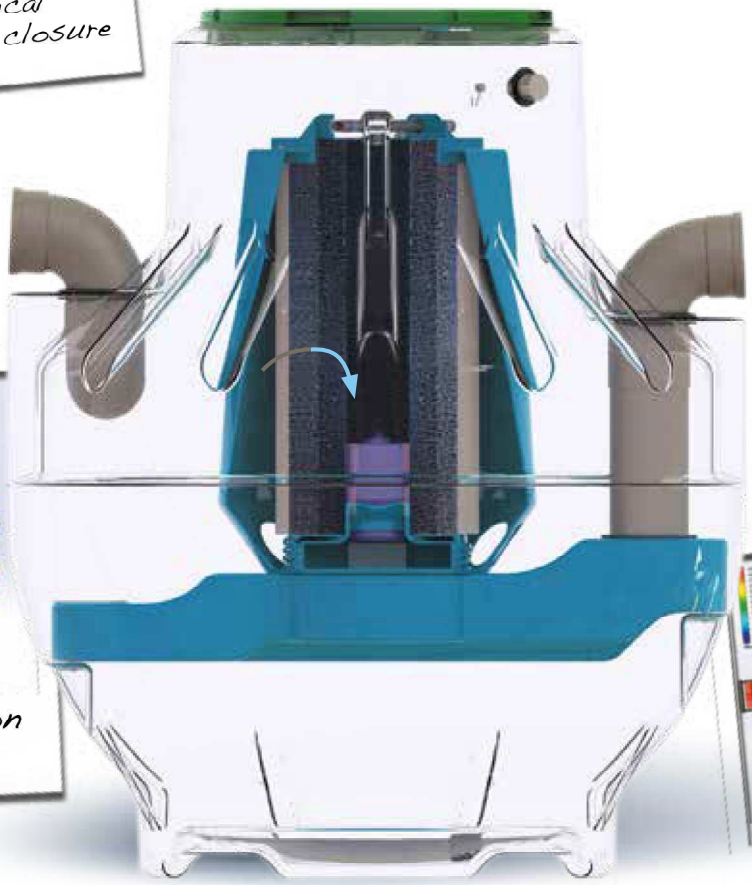
A new conical automatic closure device

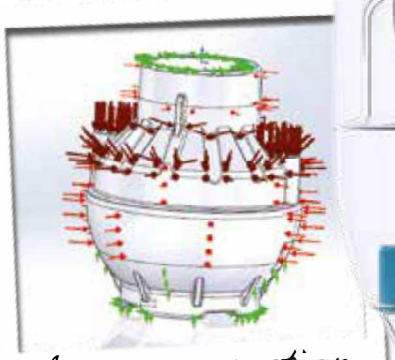


An optimised access

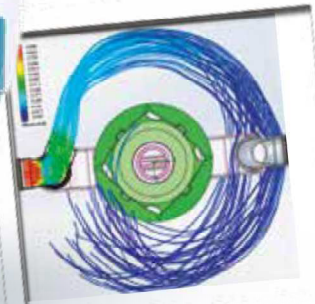
A lockable cover

Model YH0506E





A new conception of the tank



A new approach on internal flows


A new coalesence cell

A central sludge silo

# Oil separator
## Selection guide / Sites and configurations

## 1 | The importance of the site in the choice of the separator

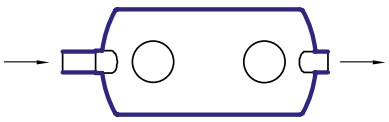
### 1.1 - Selection table

| Site | | Treatment | Models size 1.5 to 35 l/s | | | | Models size 36 to 500 l/s | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Polyethylene | Page | Steel | Page | Steel | Page | Polyester | Page |
| *Car park* | *covered: gravity discharge downstream the separator* | 100% | YH05/EH05 | 24 | YH05 / ADHF | 25 | U4 | 39 | U6 | 38 |
| | *underground: pumping downstream the separator* | 100% | EHR05 | 32 | YHR05 / ADHFR | 34 | Consult our design office | | | |
| *Fuel filling and distribution area* | | 100% | YH05 / EH05 / ADHF | 24 | YH05 / ADHF | 25 | U4 | 39 | U6 | 38 |
| *Washing area* | *light-duty vehicles* | 100% | YH15 / EH15 | 28 | YH15 / ADHFG | 29 | U4 | 39 | U6 | 38 |
| | *heavy-duty vehicles* | 100% | YH16 / EH16 | 28 | YH16 / ADHFK | 29 | U4 | 39 | U6 | 38 |
| | *construction vehicles* | 100% | YH17- GDHF | 28 | YH17 / ADHFM | 29 | U4 | 39 | U6 | 38 |
| *Open area* | | 100% | YH05 / EH05 / ADHF | 24 | YH05 / ADHF | 25 | U4 | 39 | U6 | 38 |
| | | 20% | YH10 / EH10 / ADHLF | 26 | YH10 / ADHLF | 27 | Y1 | 41 | W6 | 40 |

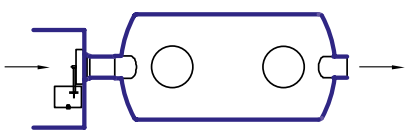
### 1.2 - Various configurations

#### 100% treatment

Direct installation on the network:

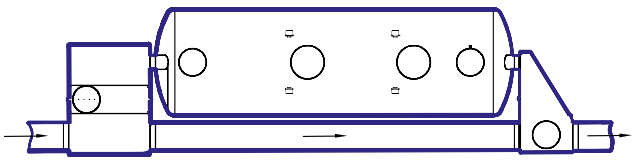


Installation downstream a stormwater tank, with a flow regulator:

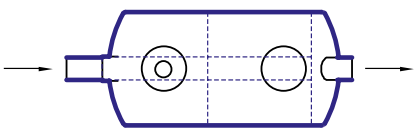


#### 20% treatment

By-pass type installation on the network with regulation storm chamber:



By-pass type installation on the network, with integrated by-pass:



# Oil separator
## Selection guide / Covered areas and petrol stations

## 2 | How to choose a separator for covered car parks?

### Selection table

**Example for an oil separator with sludge trap, 5 mg/l discharge:**

| | | | Covered car park | | Underground car park | |
|---|---|---|---|---|---|---|
| | | | Gravity discharge downstream the separator | | Pumping downstream the separator | |
| Surface in m² | Number of places | Size in l/s | Polyethylene | Steel | Polyethylene | Steel |
| *1 - 500* | 1 - 15 | 1,5 | YH0501E | YH0501A | EHR0501D | EHR0501A |
| *501 - 1500* | 16 - 50 | 3 | YH0503E | YH0503A | EHR0503D | EHR0503A |
| *1501 - 3000* | 51 - 120 | 6 | YH0506E | YH0506A | YH0506A+PU | EHR0506A |
| *3001 - 4000* | 121 - 160 | 8 | YH0508E | YH0508A | YH0508A+PU | EHR0508A |
| *4001 - 5000* | 161 - 200 | 10 | YH0510E | YH0510A | YH0510A+PU | EHR0510A |
| *5001 - 8000* | 201 - 320 | 15 | EH0515D | ADHF115AB | - | ADHFR115AB |
| *8001 - 15000* | 321 - 600 | 20 | EH0520D | ADHF120AB | - | ADHFR120AB |

***Make sure the total surface includes the external access ramps.*** *Therefore, the size of the separator will be determined on the basis of the most important flow of the two surfaces, to which the fire network flow is added.*

**Note that the pumps,** the pumping tank will be equipped with, **will be determined according to 4 criteria:** flow, pumping height, length and diameter of the discharge line (refer to page **33-35**).

## 3 | How to choose a separator for fuel filling and/or fuel distribution areas?

The size of oil separators with sludge traps is defined in France by the decree dated April 15th 2010.

The nominal size of the separator is defined on the basis of a flow rate of 45 l/h/m2 for uncovered areas. A factor of 0.5 has to be applied for covered areas (roofed cover).

### Selection table

| | | Covered surface (roofed cover) | | | Uncovered surface | |
|---|---|---|---|---|---|---|
| Surface in m² | Size (l/s) | Polyethylene | Steel | Size (l/s) | Polyethylene | Steel |
| *1 - 245* | 1,5 | YH0501E | YH0501A | 3 | YH0503E | YH0503A |
| *246 - 480* | 3 | YH0503E | YH0503A | 6 | YH0506E | YH0506A |
| *481 - 640* | 4 | YH0503E | YH0503A | 8 | YH0508E | YH0508A |
| *641 - 800* | 5 | YH0506E | YH0506A | 10 | YH0510E | YH0510A |
| *801 - 1000* | 6 | YH0506E | YH0506A | 12 | EH0515D | ADHF115AB |
| *1001 - 1250* | 8 | YH0508E | YH0508A | 15 | EH0515D | ADHF115AB |
| *1251 - 1650* | 10 | YH0510E | YH0510A | 20 | EH0520D | ADHF120AB |

***In the case of a petrol station integrating a car park, it will be necessary to include 2 separators*** *(one with total treatment for the fuel distribution area, the other with partial treatment for the car park).*

**Note that for a petrol station partial treatment systems are forbidden.**

# Oil separator
## Selection guide / Washing areas

## 4 | How to choose a separator for washing areas?

Extract from the EN 858-2 august 2003 Standard:

*"The sizing of light liquid separators shall be based on the nature and flow rate of the liquids to be treated"*

The following elements need to be taken into account:

- maximum flow of rain water;
- maximum flow rate of waste water (trade effluent);
- density of the light liquid;
- presence of substances that may impede separation (e.g. detergents)

**The size of the separator should be calculated from the following formula:**

$$NS = (Qr + (Qs \times fx)) \times fd$$

**NS** is the nominal size of the separator,

**Qr** is the maximum flow rate of rainwater, in l/s,

**Qs** is the maximum flow rate of waste water, in l/s,

***fx*** is the density factor for the relevant light liquid (the factor 1 will be used by default for a density up to 0.85) for higher values consult us,

***fd*** is the impediment factor depending on the nature of the discharge (the factor 2 will be used in accordance with paragraph 4.1 of the EN 858-2 standard).

**The total wastewater inflow is calculated as the sum of contributing flows from the following formula:**

$$Qs = Qs1 + Qs2 + Qs3 + \ldots$$

**Qs1**: flow from draw-off points,
**Qs2**: flow from automatic car wash,
**Qs3**: flow from high pressure cleaning units;
...: any other contributing flow.

### 4.1 - Automatic car washes (roll-over, drive-through)

Wastewater from **low pressure car washes** (with a back pressure up to 20 bar) where only carriage bodies and chassis are cleaned does not usually contain any significant amount of light liquid. Therefore a **flow value** (**Qs2**) of **2 l/s** should be used.

Should there be wastewater from high pressure car washes (with a back pressure higher than 20 bar) and/or any additional washing procedures which will result in wastewater containing light liquids, then for every car wash place or drive through a wastewater value **Qs2** of 2 l/s plus a wastewater value **Qs3** for each **high pressure unit** should be included.

In this configuration, the sludge trap volume must be 5 m³ minimum.

# Oil separator
## Selection guide / Washing areas

### 4.2 - High pressure units

Irrespective of the effective use of water from a high pressure unit, a **wastewater value of $Q_{S3}$ of 2 l/s** should be considered. If there is more than one high pressure unit an **additional 1 l/s** shall be included for each unit.

If a **high pressure unit is being used together with an automatic car wash** for this unit a **wastewater value $Q_{S3}$ of 1 l/s** shall be included.

### 4.2.1 - Selection table

| | Polyethylene | | Steel | |
|---|---|---|---|---|
| Vehicle type | Reference | Size (l/s) | Reference | Size (l/s) |
| ***Light-duty vehicles*** | YH1502E | 2 | YH1502A | 3 |
| | YH1506E | 6 | YH1506A | 6 |
| | EH1508D | 8 | ADHFG210A | 10 |
| ***Heavy-duty vehicles*** | YH1604E | 4 | YH1604A | 3 |
| | EH1606D | 6 | ADHFK306A | 6 |
| ***Construction vehicles*** | YH1703E | 3 | YH1703A | 3 |
| | GDHF510E | 10 | ADHFM506A | 6 |

# Oil separator
## Selection guide / Uncovered areas

## 5 | How to choose a separator for uncovered areas? - total treatment?

The ten-year peak flow depends on the area to be treated and on the local rain zone (e.g. France is divided into 3 rain zones (**ZONE 1, 2 or 3**).
For areas < 10 000 m², the calculation method, according to NF EN 752-4 standard is as follows:

$$Q_{10} = Q_T = \psi \times I \times A$$

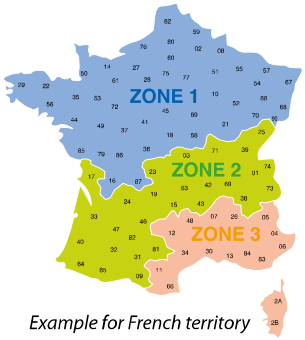
**$Q_{10}$:** ten-year peak flow rate (litres/second)

**$Q_T$:** treatment flow rate (litres/second)

**ψ:** run-off coefficient (depends on the zone: 0.9 for concrete or asphalt)

**I:** rainfall intensity
(liters/second/hectare) depending on geographical areas (in ten-year flow rate).
For instance, in France:
**ZONE 1**: 300 l/s/ha - **ZONE 2**: 400 l/s/ha - **ZONE 3**: 500 l/s/ha

**A:** area receiving rainfall (hectares)



*Example for French territory*

### Selection table for separators **without by-pass**

100% treatment of inflow

| ZONE 1 (m²) | ZONE 2 (m²) | ZONE 3 (m²) | Size (l/s) | Polyethylene | Steel | Polyester |
|---|---|---|---|---|---|---|
| 1 to 90 | 1 to 65 | 1 to 55 | 1,5 | YH0501E | YH0501A | - |
| 91 to 145 | 66 to 110 | 56 to 85 | 3 | YH0503E | YH0503A | - |
| 146 to 255 | 111 to 190 | 86 to 155 | 6 | YH0506E | YH0506A | - |
| 256 to 330 | 191 to 250 | 156 to 200 | 8 | YH0508E | YH0508A | - |
| 331 to 405 | 251 to 300 | 201 to 265 | 10 | YH0510E | YH0510A | - |
| 406 to 630 | 301 to 470 | 266 to 375 | 15 | EH0515D | ADHF115AB | - |
| 631 to 810 | 471 to 610 | 376 to 485 | 20 | EH0520D | ADHF120AB | U6ACA2P |
| 811 to 1000 | 611 to 750 | 486 to 610 | 25 | ADHF125E | ADHF125AB | U6ACF2P |
| 1001 to 1200 | 751 to 900 | 611 to 720 | 30 | ADHF130E | ADHF130AB | U6ADA2P |
| 1201 to 1380 | 901 to 1020 | 721 to 830 | 35 | - | ADHF135AB | U6ADF3P |
| 1381 to 1570 | 1021 to 1160 | 831 to 940 | 40 | - | U4AEA3A | U6AEA3P |
| 1571 to 1700 | 1161 to 1270 | 941 to 1030 | 45 | - | U4AEF3A | U6AEF3P |
| 1701 to 1900 | 1271 to 1450 | 1031 to 1150 | 50 | - | U4AFA5A | U6AFA3P |

# Oil separator
## Selection guide / Covered areas

## 6 | How to choose a separator for uncovered areas? - partial treatment?

The ten-year peak flow depends on the area to be treated and on the local rain zone (e.g. France is divided into 3 rain zones (**ZONE 1, 2 or 3**).
For areas < 10 000 m², the calculation method, according to NF EN 752-4 standard is as follows:

$$Q_{10} = \psi \times I \times A$$

$$Q_T = 20\% \, Q_{10}$$

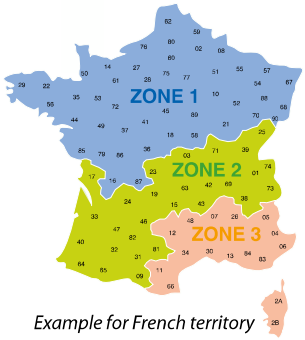
**$Q_{10}$:** ten-year peak flow rate (litres/second)

**$Q_T$:** treatment flow rate (litres/second)

**ψ:** run-off coefficient (depends on the zone: 0.9 for concrete or asphalt)

**I:** rainfall intensity
(liters/second/hectare) depending on geographical areas (in ten-year flow rate).
For instance, in France:
**ZONE 1**: 300 l/s/ha - **ZONE 2**: 400 l/s/ha - **ZONE 3**: 500 l/s/ha

**A:** area receiving rainfall (hectares)




*Example for French territory*

### Selection table **for separators with by-pass**

20% treatment of inflow

| ZONE 1 (m²) | ZONE 2 (m²) | ZONE 3 (m²) | Size (l/s) | Polyethylene | Steel | Polyester |
|---|---|---|---|---|---|---|
| 1 to 280 | 1 to 220 | 1 to 170 | 1,5 | YH1001E | YH1001A | - |
| 281 to 830 | 221 to 620 | 171 to 500 | 3 | YH1003E | YH1003A | - |
| 831 to 1185 | 621 to 888 | 501 to 711 | 6 | YH1006E | YH1006A | - |
| 1186 to 1555 | 889 to 1166 | 712 to 933 | 8 | YH1008E | YH1008A | - |
| 1156 to 2310 | 1167 to 1730 | 934 to 1385 | 10 | YH1010E | YH1010A | - |
| 2311 to 3230 | 1731 to 2430 | 1386 to 1940 | 15 | EH1015D | ADHLF115AB | - |
| 3231 to 4160 | 2431 to 3120 | 1941 to 2500 | 20 | EH1020D | ADHLF120AB | W6ACA3P |
| 4161 to 5080 | 3121 to 3820 | 2501 to 3050 | 25 | ADHLF125E | ADHLF125AB | W6ACF4P |
| 5081 to 6000 | 3821 to 4500 | 3051 to 3600 | 30 | ADHLF130E | ADHLF130AB | W6ADA4P |
| 6001 to 6900 | 4501 to 5200 | 3601 to 4150 | 35 | - | ADHLF135AB | W6ADF4P |
| 6901 to 7870 | 5201 to 5900 | 4151 to 4700 | 40 | - | Y1AEA4A | W6AEA4P |
| 7871 to 8795 | 5901 to 6590 | 4701 to 5250 | 45 | - | Y1AEF4A | W6AEF4P |
| 8796 to 9720 | 6591 to 7290 | 5251 to 5830 | 50 | - | Y1AFA5A | W6AFA5P |

Stormwater | Polyethylene

Class I
Discharge < 5 mg/l
Size 1,5 to 30 l/s

# Oil separator
## with sludge trap & coalescing filter

Recyclable polyethylene tanks produced by rotomoulding. Vertical automatic closure device, calibrated at 0.85.

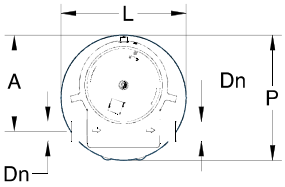
• **TechneauSphère range:**
PVC inlet and outlet,
Polyethylene cover,
Removable coalescing filter protected from the sludge by an inner wall.

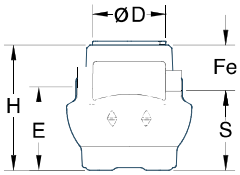
• **Ellipse range:**
Inlet and outlet with nitrile seals,
Polyethylene manholes,
Polyethylene inner wall with filter holder and coalescing filter.

• **Aronde range:**
PVC inlet and outlet,
Polyethylene manholes,
Polyethylene inner wall with filter holder and coalescing filter.

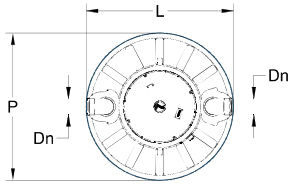
**OPTION**
• **Visual and audible alarm** see p. 83

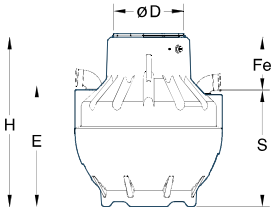
## TechneauSphère



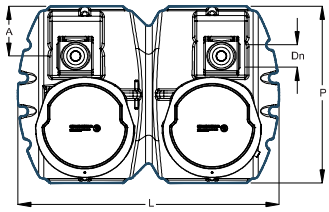

| | Size l/s | P | L | H | E | S | Fe | Dn | A | Weight | Useful volume | | ø D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Sludge trap | Separator | |
| YH0501E | 1,5 | 1000 | 1000 | 1000 | 669 | 639 | 361 | 110 | 770 | 37 | 150 | 190 | 585 |

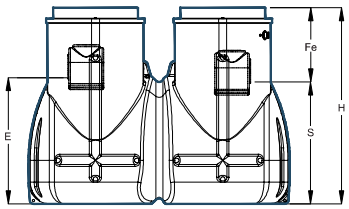



| | Size l/s | P | L | H | E | S | Fe | Dn | Weight | Useful volume | | ø D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Sludge trap | Separator | |
| YH0503E | 3 | 1200 | 1200 | 1230 | 840 | 800 | 430 | 110 | 40 | 300 | 359 | 585 |
| YH0506E | 6 | 1500 | 1500 | 1700 | 1200 | 1150 | 550 | 160 | 88 | 600 | 900 | 745 |
| YH0508E | 8 | 1500 | 1500 | 1700 | 1200 | 1150 | 550 | 160 | 88 | 800 | 720 | 745 |
| YH0510E | 10 | 1500 | 1500 | 1965 | 1450 | 1400 | 565 | 160 | 114 | 1000 | 940 | 745 |

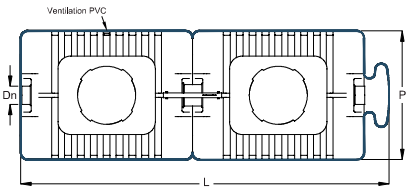
## Ellipse

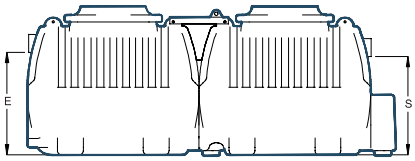



| Ref. range EH05 | Size l/s | L | P | H | E | S | Fe | Dn | A | Useful volume | | Weight | Manhole type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Sludge trap | Separator | | |
| EH0515D | 15 | 2400 | 1624 | 1803 | 1160 | 1120 | 683 | 200 | 457 | 1500 | 1730 | 229 | BCE10 |
| EH0520D | 20 | 2400 | 1624 | 2175 | 1532 | 1492 | 683 | 200 | 457 | 2000 | 2060 | 257 | |

## Aronde




| Ref. range ADHFE | Size l/s | L | P | H | E | S | Fe | Dn | Volume | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Sludge trap | Separator | |
| ADHF125E | 25 | 4292 | 1500 | 1730 | 1200 | 1150 | 580 | 200 | 2500 | 3700 | 312 |
| ADHF130E | 30 | 4300 | 1555 | 1730 | 1200 | 1150 | 580 | 200 | 3000 | 3200 | 317 |

Dimensions are given in mm, weights in kg, volumes in litres.

# Oil separator
## with sludge trap and coalescing filter

Steel **tank** with hoisting rings.
Bi-component coating based on poly-amid adduct/epoxy resins.
**Inlet and outlet** in PVC
Vertical polyethylene **automatic closure device** calibrated at 0.85 ( other calibrations on request).

- **Hydrocube Range:**
  Polyethylene cover.
  Conical partition module- coalescing filter (CCF) completely removable.

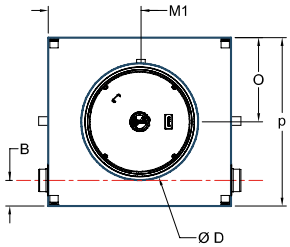
- **Hydrobac Range:**
  Cylindrical manhole(s) without cover,
  Coalescing filter removable.

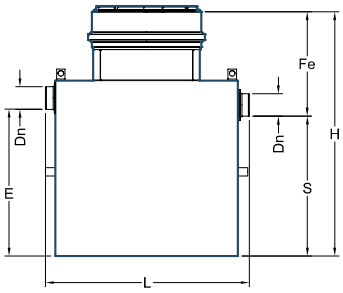
**OPTIONS**
- **Polyethylene extension type E** see p. 82
- **Visual and audible alarm** see p. 83

## HydroCube



Inside Separator detail

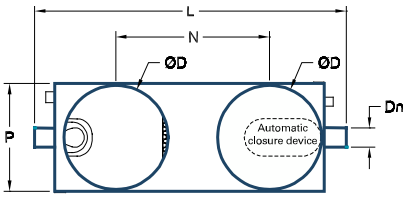


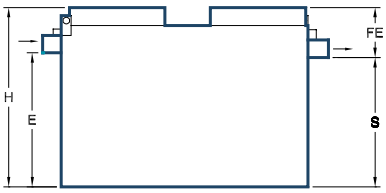




| Ref. range YH05A | Size l/s | L | P | H | E | S | M1 | O | B | Fe | Dn | ø D | Volume | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Sludge trap | Separator | |
| **YH0501A** | 1,5 | 885 | 745 | 1200 | 660 | 630 | 372 | 302 | 117 | 570 | 110 | 585 | 150 | 200 | 110 |
| **YH0503A** | 3 | 1122 | 995 | 1200 | 790 | 750 | 497 | 497 | 200 | 449 | 110 | 585 | 300 | 442 | 151 |
| **YH0506A** | 6 | 1466 | 1200 | 1739 | 1050 | 1000 | 650 | 600 | 190 | 740 | 160 | 745 | 600 | 960 | 247 |
| **YH0508A** | 8 | 1500 | 1200 | 1989 | 1270 | 1219 | 650 | 600 | 190 | 770 | 160 | 745 | 800 | 970 | 353 |
| **YH0510A** | 10 | 1550 | 1200 | 1989 | 1270 | 1219 | 650 | 600 | 190 | 770 | 160 | 745 | 1000 | 1000 | 360 |

## HydroBac

**OPTION**
**Visual and audible alarm** see p. 83




| Ref. range ADHLFAB | Size l/s | L | P | H | E | S | Fe | Dn | Volume | | Weight | Manhole(s) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Sludge trap | Separator | | Nb | D | N |
| **ADHF115AB** | 15 | 2170 | 830 | 2110 | 1660 | 1610 | 500 | 200 | 1500 | 1350 | 561 | 2 | 750 | 1120 |
| **ADHF120AB** | 20 | 3100 | 830 | 2000 | 1550 | 1500 | 500 | 200 | 2000 | 1800 | 664 | 2 | 750 | 1350 |
| **ADHF125AB** | 25 | 3030 | 1200 | 1920 | 1470 | 1420 | 500 | 200 | 2500 | 2270 | 805 | 2 | 750 | 1771 |
| **ADHF130AB** | 30 | 3630 | 1200 | 1920 | 1470 | 1420 | 500 | 200 | 3000 | 2794 | 938 | 2 | 750 | 2221 |
| **ADHF135AB** | 35 | 4350 | 1200 | 2110 | 1470 | 1420 | 690 | 315 | 3500 | 3316 | 1180 | 2 | 750/950 | 2671 |

Dimensions are given in mm, weights in kg, volumes in litres.

Class I
Discharge < 5 mg/l
Size 1,5 to 30 l/s

# Oil separator
## with sludge trap, coalescing filter & by-pass

Recyclable polyethylene tanks produced by rotomoulding.

Vertical automatic closure device, calibrated at 0.85.
Inlet and outlet with nitrile seals (except YH1001E: inlet and outlet in PVC).

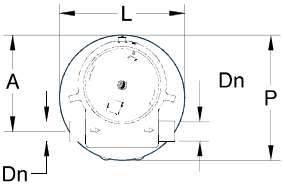
Inlet device with overflow blade and siphon partition to feed the by-pass.

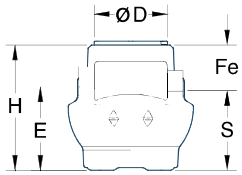
- **TechneauSphère range:**
Polyethylene cover,
Removable coalescing filter protected from the sludge by an inner wall.

- **Ellipse and Aronde ranges:**
Polyethylene manholes,
Polyethylene inner wall with filter holder and coalescing filter.

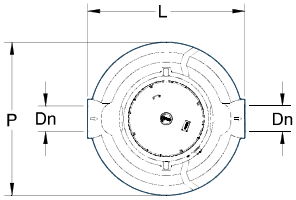
**OPTION**
- **Visual and audible alarm** see p. 83

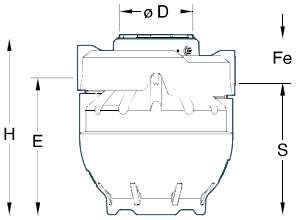
## TechneauSphère



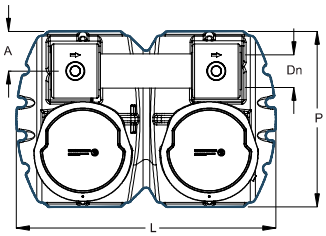

| | Size l/s | P | L | H | E | S | Fe | Dn | A | Weight | Useful volume | | ø D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Sludge trap | Separator | |
| YH1001E | 1,5 | 1000 | 1000 | 1000 | 665 | 635 | 365 | 160 | 770 | 38 | 150 | 190 | 585 |

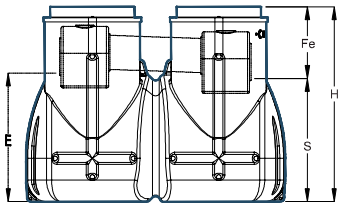



| | Size l/s | P | L | H | E | S | Fe | Dn | Weight | Useful volume | | ø D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Sludge trap | Separator | |
| YH1003E | 3 | 1200 | 1200 | 1230 | 880 | 840 | 390 | 200 | 54 | 300 | 359 | 585 |
| YH1006E | 6 | 1500 | 1500 | 1700 | 1330 | 1280 | 420 | 250 | 117 | 600 | 900 | 745 |
| YH1008E | 8 | 1500 | 1500 | 1700 | 1260 | 1210 | 490 | 315 | 117 | 800 | 720 | 745 |
| YH1010E | 10 | 1500 | 1500 | 1965 | 1500 | 1450 | 515 | 315 | 145 | 1000 | 940 | 745 |

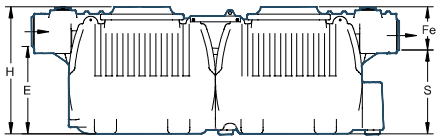
## Ellipse

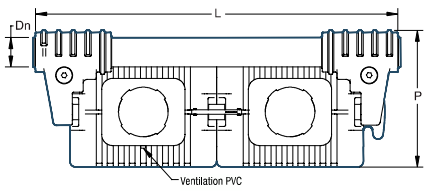



| Ref. range EH10 | Size l/s | L | P | H | E | S | Fe | Dn | A | Useful volume | | Weight | Manhole type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Sludge trap | Separator | | |
| EH1015D | 15 | 2400 | 1624 | 1803 | 1189 | 1139 | 664 | 315 | 457 | 1500 | 1680 | 241 | BCE10 |
| EH1020D | 20 | | | 2175 | 1513 | 1513 | 713 | 400 | | 2000 | 2040 | 278 | |

## Aronde




| Ref. range ADHLFE | Size l/s | L | P | H | E | S | Fe | Dn | Volume | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Sludge trap | Separator | |
| ADHLF125E | 25 | 4300 | 1555 | 1730 | 1080 | 980 | 750 | 400 | 2500 | 2700 | 336 |
| ADHLF130E | 30 | 4960 | 1880 | | 1200 | 1150 | 580 | | 3000 | 3200 | 356 |

Dimensions are given in mm, weights in kg, volumes in litres.

# Oil separator
## with sludge trap, coalescing filter & by-pass

Steel **tank** with hoisting rings.

Bi-component coating based on polyamid adduct/epoxy resins.

**Inlet and outlet** in steel.

Vertical polyethylene **automatic closure device** calibrated at 0.85 (other calibrations on request).

Inlet with **overflow blade and siphon partition** to feed the by-pass.

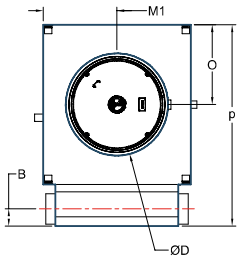
- **Hydrocube Range:**
  Polyethylene cover.
  Conical partition module- coalescing filter ( CCF) completely removable.

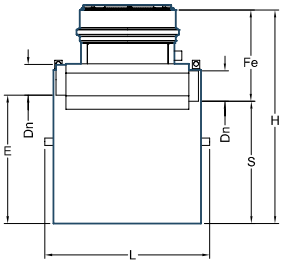
- **Hydrobac Range:**
  Cylindrical manhole(s) without cover,
  Coalescing filter removable.

**OPTIONS**
- **Polyethylene extension E type** see p. 82
- **Visual and audible alarm** see p. 83

## HydroCube

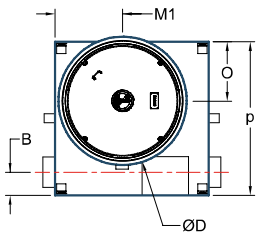

Ref. YH0501A

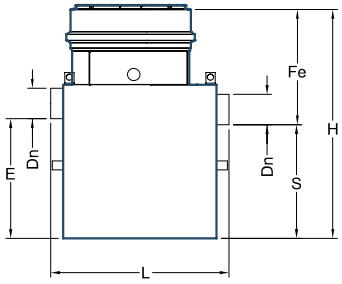



| Ref. range ADHFA | Size l/s | L | P | H | E | S | M1 | O | B | Fe | Dn | ø D | Volume | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Sludge trap | Separator | |
| **YH1001A** | 1,5 | 923 | 745 | 1200 | 660 | 632 | 372 | 302 | 128 | 568 | 160 | 585 | 150 | 200 | 112 |
| **YH1003A** | 3 | 1155 | 995 | 1484 | 780 | 740 | 437 | 382 | 150 | 745 | 200 | 745 | 300 | 432 | 165 |


Ref. YH0506A

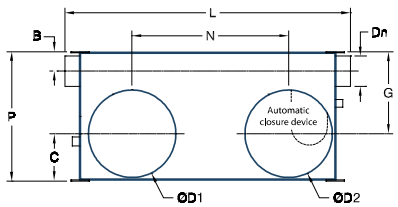


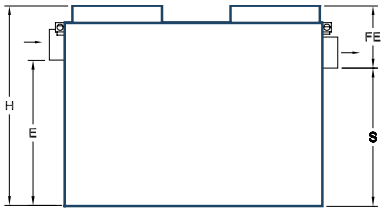




| Ref. range YH10A | Size l/s | L | P | H | E | S | M1 | O | B | Fe | Dn | ø D | Volume | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Sludge trap | Separator | |
| **YH1006A** | 6 | 1340 | 1640 | 1739 | 1050 | 1000 | 600 | 650 | 140 | 739 | 250 | 745 | 600 | 960 | 274 |
| **YH1008A** | 8 | 1340 | 1660 | 1989 | 1170 | 1120 | 600 | 650 | 160 | 870 | 315 | 745 | 800 | 880 | 389 |
| **YH1010A** | 10 | 1350 | 1660 | 1989 | 1170 | 1120 | 600 | 650 | 160 | 870 | 315 | 745 | 1000 | 900 | 394 |

## HydroBac

**OPTION**
**Visual and audible alarm** see p. 83




| Ref. range ADHLFAB | Size l/s | L | P | H | E | S | Fe | Dn | B | Volume | | Weight | Manhole(s) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Sludge trap | Separator | | Nb | ø D1 | ø D2 | N | C | G |
| **ADHLF112AB** | 12 | 1950 | 1300 | 1650 | 1146 | 1046 | 604 | 315 | 169 | 1200 | 1120 | 580 | 2 | 750 | 750 | 930 | 550 | 915 |
| **ADHLF115AB** | 15 | 2250 | 1200 | 1760 | 1320 | 1220 | 540 | 315 | 230 | 1500 | 1430 | 665 | 2 | 750 | 750 | 1170 | 425 | 775 |
| **ADHLF120AB** | 20 | 2750 | 1250 | 1910 | 1320 | 1220 | 690 | 400 | 230 | 2000 | 1965 | 787 | 2 | 750 | 750 | 1670 | 425 | 825 |
| **ADHLF125AB** | 25 | 3050 | 1200 | 2110 | 1520 | 1420 | 690 | 400 | 215 | 2500 | 2270 | 880 | 2 | 750 | 750 | 2010 | 395 | 805 |
| **ADHLF130AB** | 30 | 3650 | 1200 | 2110 | 1520 | 1420 | 690 | 400 | 215 | 3000 | 2790 | 1030 | 2 | 750 | 750 | 2610 | 395 | 805 |
| **ADHLF135AB** | 35 | 4250 | 1200 | 2110 | 1520 | 1420 | 690 | 400 | 215 | 3500 | 3310 | 1217 | 2 | 750 | 950 | 3110 | 395 | 705 |

Dimensions are given in mm, weights in kg, volumes in litres.

# Oil separator
## with big sludge trap & coalescing filter

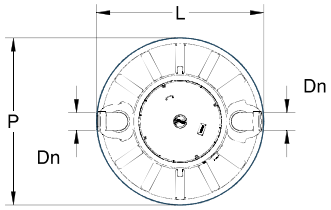
Recyclable polyethylene tanks produced by rotomoulding.
Vertical automatic closure device, calibrated at 0.85.
• **TechneauSphère range:**
PVC inlet and outlet,
Polyethylene cover,
Removable coalescing filter protected from the sludge by an inner wall.
• **Ellipse range:**
Inlet and outlet with nitrile seals,
Polyethylene manholes,
Polyethylene inner wall with filter holder and coalescing filter.
• **Aronde range:**
PVC inlet and outlet,
Polyethylene manholes,
Polyethylene inner wall with filter holder and coalescing filter.

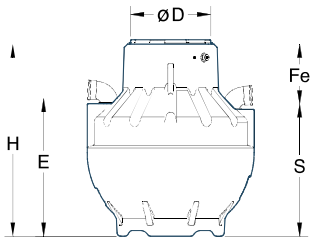
**OPTION**
• **Visual and audible alarm** see p. 83

## TechneauSphère

Especially for washing area

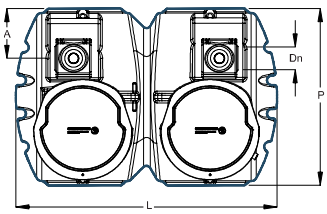
* For models with size ≥ 4 l/s

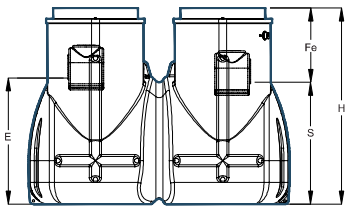



| Ref. range YH15-YH16-YH17 | Size l/s | P | L | H | E | S | Fe | Dn | Weight | Useful volume | | ø D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Sludge trap | Separator | |
| **YH1502E** | 2 | 1200 | 1200 | 1230 | 840 | 800 | 430 | 110 | 40 | 400 | 259 | 585 |
| **YH1703E** | 3 | 1500 | 1500 | 1700 | 1200 | 1150 | 550 | 110 | 86 | 1200 | 300 | 745 |
| **YH1604E** | 4 | 1500 | 1500 | 1700 | 1200 | 1150 | 550 | 110 | 86 | 1200 | 320 | 745 |
| **YH1506E** | 6 | 1500 | 1500 | 1965 | 1450 | 1400 | 565 | 160 | 114 | 1200 | 740 | 745 |

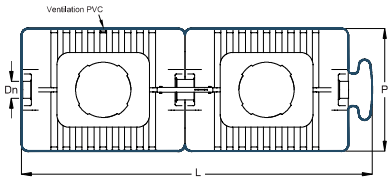
## Ellipse

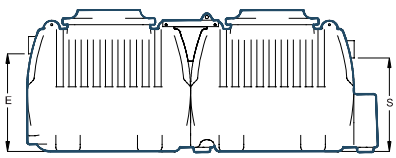



| Ref. range EH15-EH16 | Size l/s | L | P | H | E | S | Fe | Dn | A | Useful volume | | Weight | Manhole type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Sludge trap | Separator | | |
| **EH1606D** | 6 | 2400 | 1624 | 1803 | 1180 | 1140 | 663 | 160 | 457 | 1520 | 1740 | 229 | BCE10 |
| **EH1508D** | 8 | 2400 | 1624 | 2175 | 1552 | 1512 | | | | 1900 | 2190 | 258 | |

## Aronde




| Ref. range AGDHFE | Size l/s | L | P | H | E | S | Fe | Dn | Volume | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Sludge trap | Separator | |
| **AGDHF510E** | 10 | 4292 | 1500 | 1730 | 1200 | 1150 | 580 | 160 | 5000 | 1200 | 296 |

Dimensions are given in mm, weights in kg, volumes in litres.

# Oil separator
## with big sludge trap and coalescing filter

Steel **tank** with hoisting rings.

Bi-component coating based on polyamid adduct/epoxy resins.

**Inlet and outlet** in PVC

Vertical polyethylene **automatic closure device** calibrated at 0.85 (other calibrations on request).

- **Hydrocube Range:**
  Polyethylene cover.
  Conical partition module- coalescing filter (CCF) completely removable.

- **Hydrobac Range:**
  Cylindrical manhole(s) without cover,
  Coalescing filter removable.

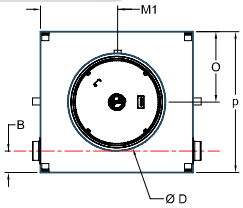
**OPTIONS**
- **Polyethylene extension E type** see p. 82
- **Visual and audible alarm** see p. 83

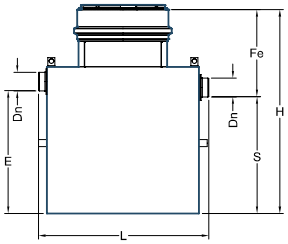
## HydroCube

Special washing-area

* For models with size ≥ 4 l/s



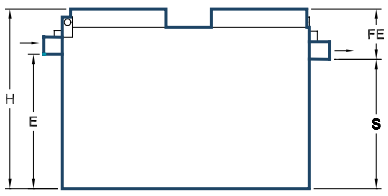


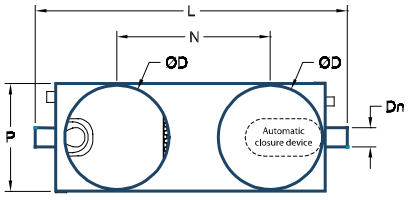




| Ref. range YH15A/16A/17A | Size l/s | L | P | H | E | S | M1 | O | B | Fe | Dn | ø D | Volume | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Sludge trap | Separator | |
| **YH1502A** | 2 | 1122 | 995 | 1200 | 790 | 750 | 497 | 497 | 200 | 449 | 110 | 585 | 400 | 442 | 151 |
| **YH1703A** | 3 | 1466 | 1200 | 1739 | 1050 | 1000 | 650 | 600 | 190 | 740 | 110 | 745 | 1200 | 270 | 247 |
| **YH1604A** | 4 | 1466 | 1200 | 1739 | 1050 | 1000 | 650 | 600 | 190 | 740 | 110 | 745 | 1200 | 360 | 247 |
| **YH1506A** | 6 | 1500 | 1200 | 1989 | 1270 | 1219 | 650 | 600 | 190 | 770 | 160 | 745 | 1200 | 800 | 353 |

## HydroBac


**OPTION**
**Visual and audible alarm** see p. 83




| Ref. range ADHFK/ADHFM/ ADHFG | Size l/s | L | P | H | E | S | Fe | Dn | Volume | | Weight | Manhole(s) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Sludge trap | Separator | | Nb | D | N |
| **ADHFK306A** | 6 | 2200 | 830 | 1900 | 1550 | 1500 | 400 | 160 | 1800 | 690 | 496 | 2 | 580 | 1070 |
| **ADHFM506A** | 6 | 2500 | 830 | 2200 | 1850 | 1800 | 400 | 160 | 3000 | 480 | 612 | 2 | 580 | 1370 |
| **ADHFG210A** | 10 | 2500 | 1040 | 1900 | 1550 | 1500 | 400 | 160 | 2000 | 800 | 454 | 2 | 780 | 1200 |

Dimensions are given in mm, weights in kg, volumes in litres.

Stormwater | Polyethylene

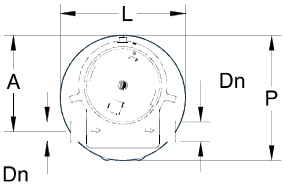
Class I
Discharge < 5 mg/l
Size 3 to 50 l/s

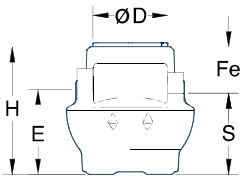
# Oil separator
## with coalescing filter

Recyclable polyethylene tanks produced by rotomoulding.
Vertical automatic closure device, calibrated at 0.85.
• **TechneauSphère range:**
PVC inlet and outlet,
Polyethylene cover,
Removable coalescing filter protected from the sludge by an inner wall.
• **Ellipse range:** :
Inlet and outlet with nitrile seals,
Polyethylene manholes,
Polyethylene inner wall with filter holder and coalescing filter.
• **Aronde range:**
PVC inlet and outlet,
Polyethylene manholes,
Polyethylene inner wall with filter holder and coalescing filter.

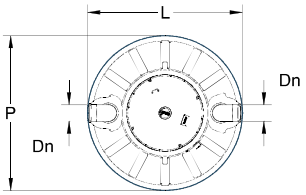
**OPTION**
• **Visual and audible alarm** see p. 83

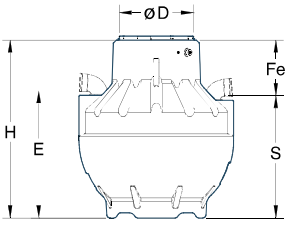
## TechneauSphère



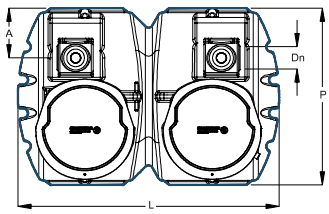

| | Size l/s | P | L | H | E | S | Fe | Dn | A | Weight | Useful volume Separator | ø D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YH2003E | 3 | 1000 | 1000 | 1000 | 669 | 639 | 361 | 110 | 770 | 37 | 340 | 585 |

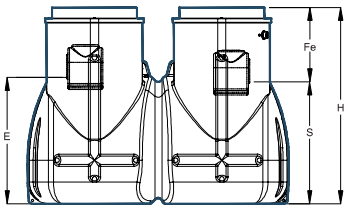



| | Size l/s | P | L | H | E | S | Fe | Dn | Weight | Useful volume Separator | ø D |
|---|---|---|---|---|---|---|---|---|---|---|---|
| YH2010E | 10 | 1500 | 1500 | 1700 | 1200 | 1150 | 550 | 160 | 88 | 1520 | 745 |

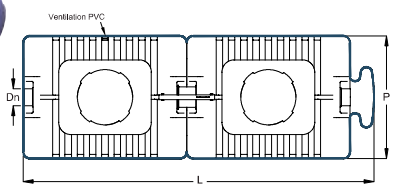
## Ellipse

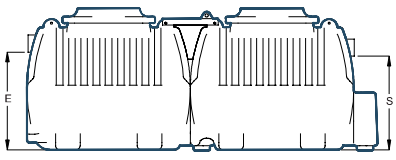



| Ref. range EH20 | Size l/s | L | P | H | E | S | Fe | Dn | A | Volume Separator | Weight | Manhole type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EH2020D | 20 | 2400 | 1624 | 1803 | 1160 | 1120 | 683 | 200 | 457 | 2900 | 229 | BCE10 |

## Aronde




| Ref. range AHFE | Size l/s | L | P | H | E | S | Fe | Dn | Volume Separator | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| AHF130E | 30 | 2292 | 1500 | 1730 | 1085 | 1065 | 665 | 200 | 3100 | 187 |
| AHF150E | 50 | 4300 | | | 1055 | 1035 | 695 | 300 | 5700 | 317 |

Dimensions are given in mm, weights in kg, volumes in litres.

# Oil separator
## with coalescing filter

Steel **tank** with hoisting rings.

Bi-component coating based on polyamid adduct/epoxy resins.

**Inlet and outlet** in PVC

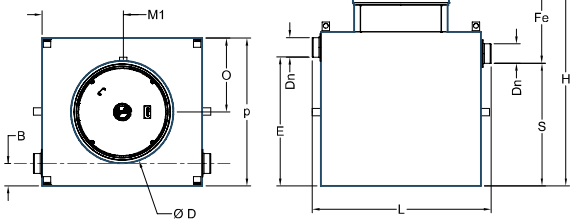
Vertical polyethylene **automatic closure device** calibrated at 0.85 (other calibrations on request).

- **Hydrocube Range:**
  Polyethylene cover.
  Conical partition module- coalescing filter (CCF) completely removable.

- **Hydrobac Range:**
  Cylindrical manhole(s) without cover,
  Coalescing filter removable.

**OPTIONS**
- **Polyethylene extension E type** see p. 82
- **Visual and audible alarm** see p. 83

HydroCube


| Ref. range YH2OA | Size l/s | L | P | H | E | S | M1 | O | B | Fe | Dn | ø D | Volume Separator | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **YH2003A** | 3 | 885 | 745 | 1200 | 660 | 630 | 372 | 302 | 117 | 570 | 110 | 585 | 350 | 110 |
| **YH2010A** | 10 | 1466 | 1200 | 1739 | 1050 | 1000 | 650 | 600 | 190 | 740 | 160 | 745 | 1560 | 247 |

# Oil separator
## with coalescing filter and lift tank

## Use

- Ideal for runoff water requiring downstream pumping,
- Underground installation inside or outside the building

## Design

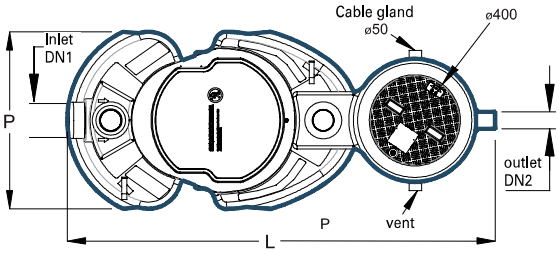
- Recyclable polyethylene rotomoulded tank insensitive to corrosion
- Integrated reinforcements for a better mechanical resistance
- Inlet device DN 110 with nitrile seal
- Polyethylene inner wall with filter holder and coalescing filter
- Polyethylene automatic closure device calibrated at 0,85
- 1 polyethylene anti-slip cover with stainless screws for a secure pedestrian traffic
- 1 polyethylene manhole (can be shortened/ adjustable)
- PVC female DN 50 ventilation bonding sleeve
- PVC outlet sleeve/hose DN 63
- Lifting straps for easy handling
  DN 50 bonding cable gland sleeve

## Internal Equipment

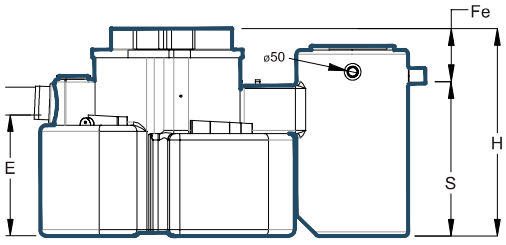
- 1 integrated pumping station
- 1 single-phase submersible 230V pump, type Wilo SBS 2/204 assembled with union fitting for quick removal
- 1 PVC ball check valve DN 40

Especially for underground car park

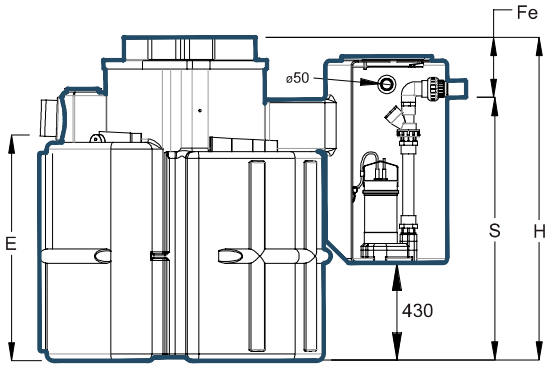
**The product's advantage:**
*compact single-package unit combining water treatment and pumping.*




EHR




*Model EHR 0501C*




*Model EHR 0503C*

| Ref Range EHR | Pump Type | Size l/s | L | P | H | E | S | Fe | Dn1 inlet | Dn2 outlet | Volume | | | Weight | Manhole Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Sludge trap | Separator | Pumping | | |
| EHR0501D | WILO SBS 2 204 | 1,5 | 1876 | 778 | 994 | 575 | 740 | 254 | 110 | 63 | 150 | 190 | 90 | 68 | BCE05 |
| EHR0503D | | 3 | 1888 | | 1424 | 1005 | 1170 | | | | 300 | 350 | | 85 | |

Dimensions are given in mm, weight in kg, volume in litres

Class I
Discharge < 5 mg/l
Size 1,5 - 10 l/s

# Oil separator
## with sludge trap, coalescing filter and lift tank

- Steel **tank** with hoisting rings.
- Bi-component coating based on polyamid adduct/epoxy resins.
- **Inlet and outlet** in PVC.
- Vertical polyethylene **automatic closure device** calibrated at 0.85 ( other calibrations on request).
- **Conical partition module- coalescing filter** (CCF) completely removable.
- **Cable and ventilation Stitching** Dn50.
- Incorporated lift tank (Optional pumps kit).
- **Tank discharge outlet** in threaded steel coil 2"1/2.
- **3 pieces union connection tapped/ female** to glue D75 supplied with tank.

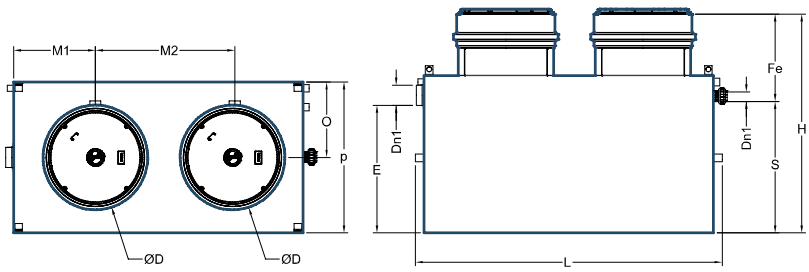
**OPTIONS**

- **Polyethylene extensions E type** see p. 82
- **Visual and audible alarm** see p. 83
- **1 or 2 pumps kit (with control panel)** see oppositte reference

HydroBac with Pumping chamber

The different chambers:



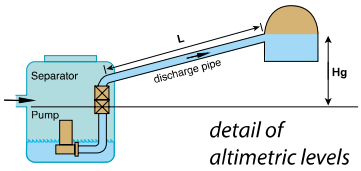

| References | Size l/s | L | P | H | E | S | M1 | M2 | O | Fe | Dn1 | øD | Volume | | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Sludge trap | Separator | Pumping | |
| YHR0501A | 1,5 | 2123 | 900 | 1489 | 657 | 800 | 372 | 1101 | 385 | 689 | 110 | 745 | 150 | 200 | 622 | 275 |
| YHR0503A | 3 | 2130 | 995 | 1489 | 790 | 800 | 500 | 980 | 497 | 689 | 110 | 745 | 300 | 442 | 700 | 296 |
| YHR0506A | 6 | 2440 | 1200 | 1739 | 1020 | 1050 | 650 | 1090 | 600 | 689 | 160 | 745 | 600 | 960 | 1080 | 462 |
| YHR0508A | 8 | 2440 | 1200 | 1989 | 1270 | 1300 | 650 | 1090 | 600 | 689 | 160 | 745 | 800 | 970 | 1250 | 628 |
| YHR0510A | 10 | 2440 | 1200 | 1989 | 1270 | 1300 | 650 | 1090 | 600 | 689 | 160 | 745 | 1000 | 1000 | 1250 | 628 |

*Dimensions are given in mm, weights in kg, volumes in litres.*

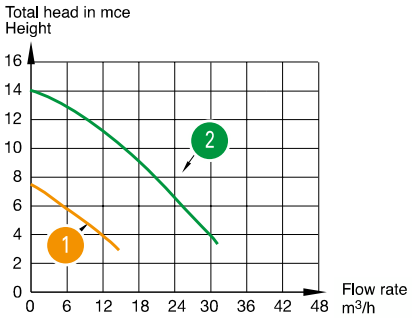
# Oil separator
## Pump kits for the lift tank CE

1 or 2 pumps, **choose your "pumping kit" according to the:**

**a static head (Hg)**




*detail of altimetric levels*




**b nominal size of the separator**


*Pumping chamber* ref. Kit KP26P *(optional)*

*Kit description:*
Especially suited to equip separators ref YHRA
Kit selection depends on flow rate and total head
*(= static head + pressure loss).*

*Component kit:*
- 1 or 2 submersible pump(s) with or without discharge pipe connector
- PVC pressure pipes with connections
- 1 or 2 non-return valve
- 1 or 3 level floats with counterbalanced chains
- 1 control panel for the 2 pumps kit

**Lift kit**
**1 or 2 pumps - Separator ADHFRA**

### a Choice according to static head (Hg)

| Ref. | Pump type | Plastic foot brackets | Number of pumps | Regulation | Dn2 Discharge | Power Kw | Voltage V | Current A | Discharge Internal Pipes | Curve's number |
|---|---|---|---|---|---|---|---|---|---|---|
| KP11P | Feka 600  | yes | 1 | régulation par Flotteurs à bille | 2"1/2 | 0,55 | 230 | 4,3 | 40 | 1 |
| KP21P | | yes | 2 | régulation Système Aéro performance (with control box and 1 alarm float)  | 2"1/2 | 0,55 | 230 | 4,3 | 40 | |
| KP16P | Feka 1200 automatic  | yes | 1 | régulation par Flotteurs à bille | 2"1/2 | 1,2 | 230 | 8,6 | 50 | 2 |
| KP26P | Feka 1200  | yes | 2 | régulation Système Aéro performance (with control box and 1 alarm float)  | 2"1/2 | 1,2 | 230 | 8,6 | 50 | |

### b Choice according to nominal size of the separator

| Ref. range YHRA | Pump Kit KP11P | Pump Kit KP21P | Pump Kit KP16P | Pump Kit KP26P |
|---|---|---|---|---|
| YHR0501A | • | • | | |
| YHR0503A | • | • | | |
| YHR0506A | | • | • | |
| YHR0508A | | | • | • |
| YHR0510A | | | | • |

**Control and protection panel CSDRCP for 2 pumps kit.**

Ensure the complete control and protection of the lift tank using regulation with aero system linked to an immersed tube in the tank. A constant air induction in the tube prevents from clugging.

Finally, the control panel ensure a complete protection of pumps from over-intensity, under-intensity and lack of phase.

Main functions:
- Visual and audible alarm on alarm float.
- Lockable breaker.
- Forced operation of the pumps with pushbutton.

# Battery-acid neutralization tank CE

- Polyethylene **tank** produced by rotomoulding.
- Polyethylene **inlet/outlet** device,
- Polyethylene **cover**,
- **1 neutralization column** with removable basket(s)

- **Operation:** this equipment is intended to neutralize battery acids before a discharge into the network.

It is specially adapted to treat waste water from battery storage or maintenance shops or chemistry room.

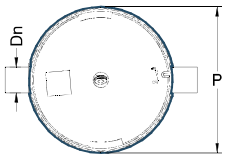
It is composed of a polyethylene tank with from 1 to 3 marble filter baskets (following references) in contact with which the acid is neutralized.

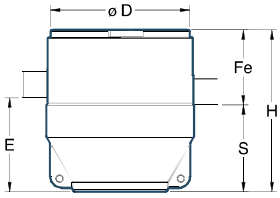
**OPTION**

**Fixed extension (no telescopic), 2 available heights:**

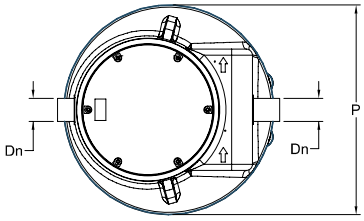
200 mm, 6 kgs ..... PLA13555G

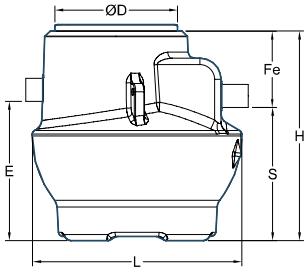
400 mm, 8 kgs ..... PLA13556G



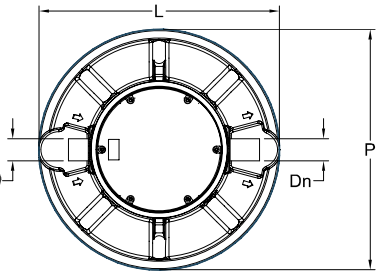

| Reference | Useful Volume | P | H | E | S | Fe | Dn | Weight | ø D |
|---|---|---|---|---|---|---|---|---|---|
| YN00E | 110 | 622 | 680 | 400 | 370 | 3100 | 110 | 16 | 585 |

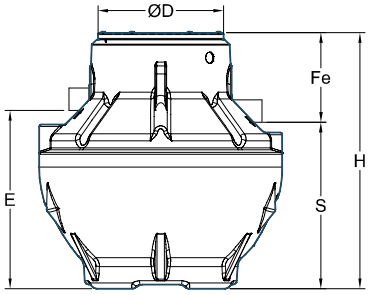



| Reference | Useful Volume | P | L | H | E | S | Fe | Dn | Weight | ø D |
|---|---|---|---|---|---|---|---|---|---|---|
| YN01E | 340 | 1000 | 1000 | 1000 | 670 | 640 | 360 | 110 | 31 | 585 |

Sphère




| Reference | Useful Volume | P | L | H | E | S | Fe | Dn | Weight | ø D |
|---|---|---|---|---|---|---|---|---|---|---|
| YN02E | 660 | 1200 | 1200 | 1230 | 880 | 825 | 405 | 110 | 46 | 585 |

*Size in l/s, dimensions in mm, weight in kg*

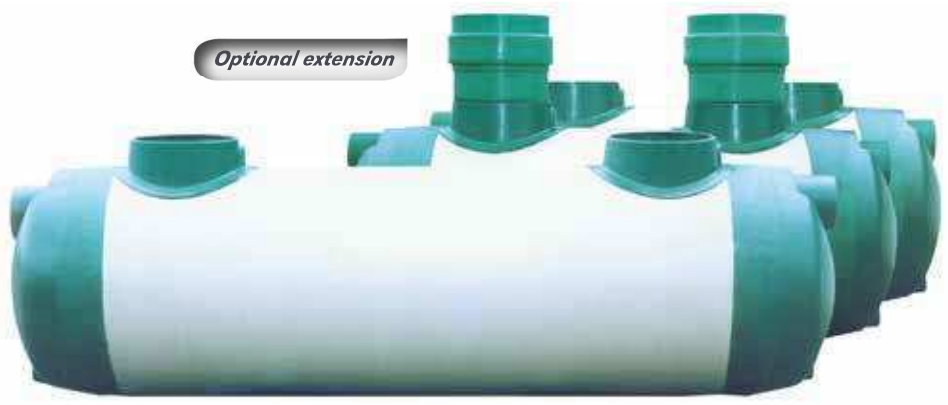
Class I
Discharge < 5 mg/l
Size 30 - 50 l/s

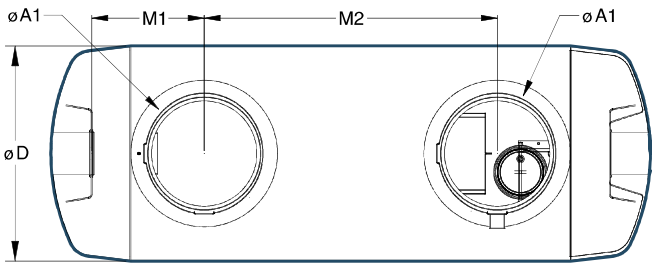
# Cylindrical oil separator
## with sludge trap and coalescing filter

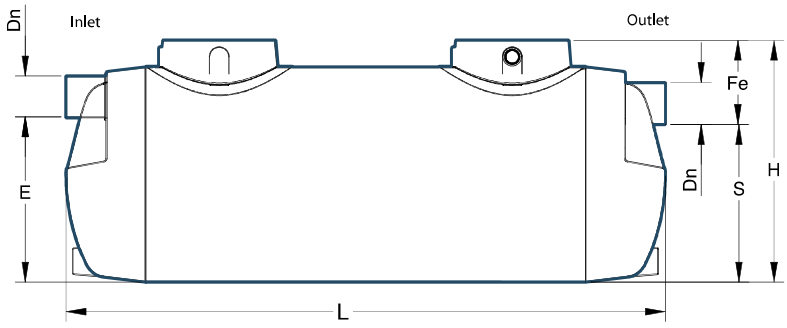
- Polyester **tank** produced by filament winding
- Polyethylene **automatic closure device** calibrated at 0,85 (other calibrations on request)
- Removable **coalescing filter**
- Cylindrical **manhole(s)** without cover

**OPTIONS**

- **Anchoring straps** see p. 84
- **Visual and audible alarm** see p. 83
- **Chassis speed** see p. 84
- **Polyethylene extensions** see p. 82




U6

| Ref Range U6 | Size l/s | ø D | L | Dn | E | S | Fe | H | M | N | ø A1 | Weight | Volume | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Sludge trap | Separator |
| U6ADA2P | 30 | 1600 | 3554 | 200 | 1350 | 1300 | 516 | 1816 | 1150 | 1254 | 790 | 421 | 3000 | 2700 |
| U6ADF3P | 35 | 1600 | 4499 | 315 | 1240 | 1190 | 626 | 1816 | 1150 | 2199 | 790 | 509 | 3500 | 3150 |
| U6AEA3P | 40 | 1600 | 5093 | 315 | 1240 | 1190 | 626 | 1816 | 1150 | 2792 | 790 | 556 | 4000 | 3600 |
| U6AEF3P | 45 | 1600 | 5686 | 315 | 1240 | 1190 | 626 | 1816 | 1150 | 3386 | 790 | 605 | 4500 | 4050 |
| U6AFA3P | 50 | 1600 | 6280 | 315 | 1240 | 1190 | 626 | 1816 | 1150 | 3980 | 790 | 659 | 5000 | 4500 |

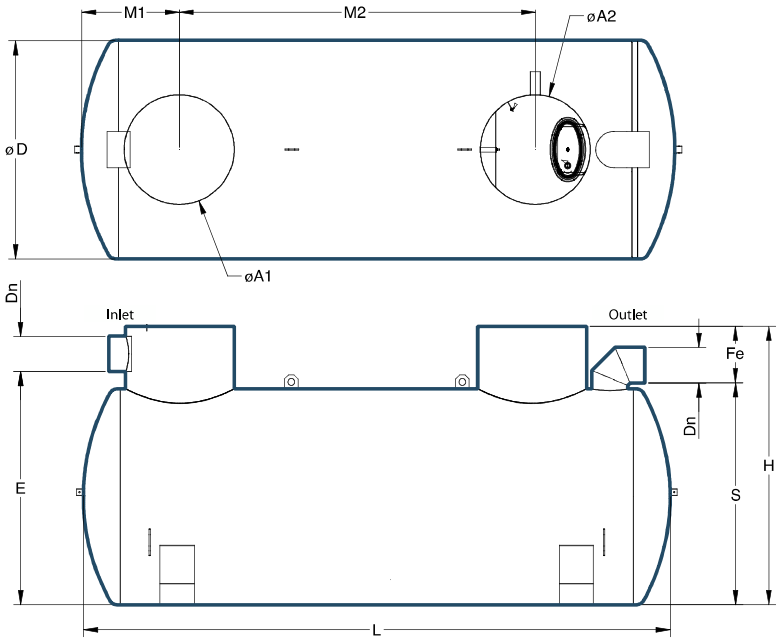
For upper sizes, please ask our design office
Dimensions are given in mm, weight in kg, volume in litres

# Cylindrical oil separator
## with sludge trap and coalescing filter

- Steel **tank** with hoisting rings.
- **Bi-component coating** based on polyamid adduct/epoxy resins.
- Cylindrical **manhole(s)** without cover
- Polyethylene **automatic closure device** calibrated at 0,85 (other calibrations on request)
- **Removable coalescing filter**

**OPTIONS**

- **Visual and audible alarm** see p. 83
- **Anchoring turnbuckles** see p. 84
- **Chassis speed** see p. 84




U4

| Ref Range U4 | Size l/s | ø D | L | Dn | E | S | Fe | H | M1 | M2 | ø A1 | ø A2 | Weight | Volume | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Sludge trap | Separator |
| U4ADA2A | 30 | 1600 | 3547 | 200 | 1703 | 1653 | 347 | 2000 | 698 | 1902 | 750 | 750 | 726 | 3000 | 2700 |
| U4ADF3A | 35 | 1600 | 4047 | 300 | 1723 | 1653 | 467 | 2120 | 698 | 2187 | 750 | 950 | 841 | 3500 | 3150 |
| U4AEA3A | 40 | 1600 | 4047 | 300 | 1723 | 1653 | 467 | 2120 | 698 | 2187 | 750 | 950 | 841 | 4000 | 3600 |
| U4AEF3A | 45 | 1600 | 4547 | 300 | 1723 | 1653 | 467 | 2120 | 698 | 2687 | 750 | 950 | 900 | 4500 | 4050 |
| U4AFA3A | 50 | 1600 | 5047 | 300 | 1723 | 1653 | 467 | 2120 | 698 | 3187 | 750 | 950 | 988 | 5000 | 4500 |

For upper sizes, please ask our design office
Dimensions are given in mm, weight in kg, volume in litres

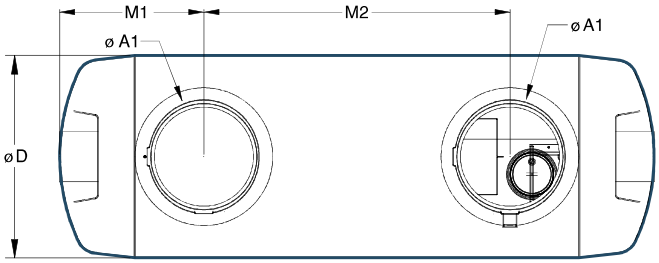
Stormwater | Polyester

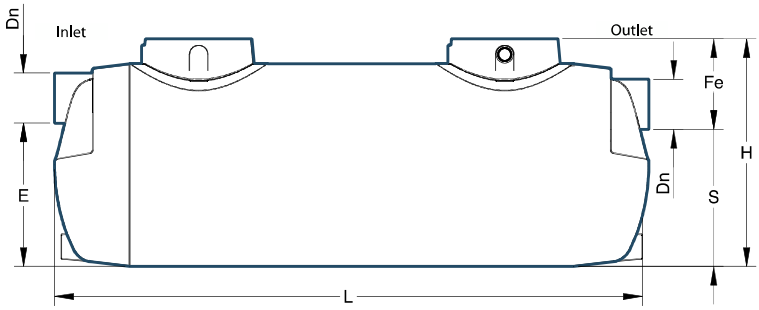
Class I
Discharge < 5 mg/l
Size 30 - 50 l/s

# Cylindrical oil separator
## with sludge trap, coalescing filter & by-pass

- Polyester **tank** produced by filament winding
- Polyethylene **automatic closure device** calibrated at 0,85 (other calibrations on request)
- **Removable coalescing filter**
- Cylindrical **manhole(s)** without cover

**OPTIONS**
- **Anchoring straps** see p. 84
- **Visual and audible alarm** see p. 83
- **Chassis speed** see p. 84
- **Polyethylene extensions** see p. 82


W6

| Ref Range W6 | Size l/s | ø D | L | Dn | E | S | Fe | H | M1 | M2 | ø A1 | Weight | Volume | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Sludge trap | Separator |
| W6ADA4P | 30 | 1600 | 4105 | 400 | 1153 | 1103 | 713 | 1816 | 1150 | 1805 | 790 | 549 | 3000 | 2700 |
| W6ADF4P | 35 | 1600 | 4742 | 400 | 1153 | 1103 | 713 | 1816 | 1150 | 2442 | 790 | 607 | 3500 | 3150 |
| W6AEA4P | 40 | 1600 | 5380 | 400 | 1153 | 1103 | 713 | 1816 | 1150 | 3080 | 790 | 667 | 4000 | 3600 |
| W6AEF4P | 45 | 1600 | 6017 | 400 | 1153 | 1103 | 713 | 1816 | 1150 | 3717 | 790 | 727 | 4500 | 4050 |
| W6AFA5P | 50 | 1600 | 7206 | 500 | 1080 | 1030 | 786 | 1816 | 1150 | 4906 | 790 | 812 | 5000 | 4500 |

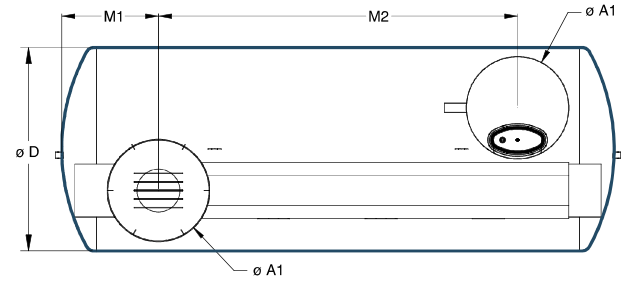
For upper sizes, please ask our design office
Dimensions are given in mm, weight in kg, volume in litres

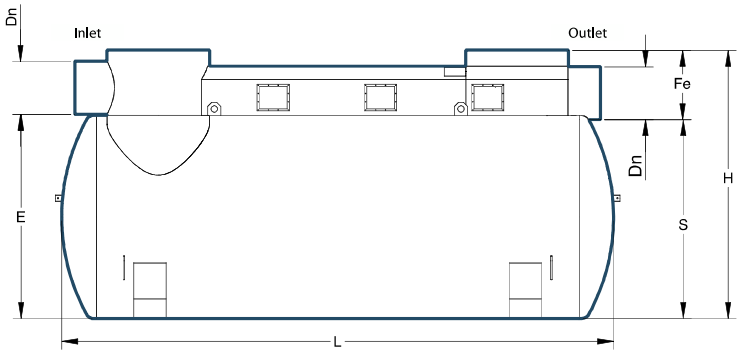
# Cylindrical oil separator
## with sludge trap, coalescing filter & by-pass

- Steel **tank** with hoisting rings.
- **Bi-component coating** based on polyamid adduct/epoxy resins.
- Cylindrical manhole(s) without cover
- Polyethylene **automatic closure device** calibrated at 0,85 (other calibrations on request)
- **Screening**
- **Removable coalescing filter**
- Cylindrical **manholes** without cover

**OPTIONS**
- **Visual and audible alarm** see p. 83
- **Anchoring turnbuckles** see p. 84
- **Chassis speed** see p. 84

Y1




| Ref Range Y1 | Size l/s | ø D | L | Dn | E | S | Fe | H | M1 | M2 | ø A1 | Weight | Volume | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Sludge trap | Separator |
| Y1ADA4A | 30 | 1600 | 3047 | 400 | 1623 | 1573 | 627 | 2200 | 801 | 1444 | 850 | 810 | 3000 | 2700 |
| Y1ADF4A | 35 | 1600 | 3547 | 400 | 1623 | 1573 | 627 | 2200 | 801 | 1944 | 850 | 917 | 3500 | 3150 |
| Y1AEA4A | 40 | 1600 | 4047 | 400 | 1623 | 1573 | 627 | 2200 | 801 | 2444 | 850 | 990 | 4000 | 3600 |
| Y1AEF4A | 45 | 1600 | 4547 | 400 | 1623 | 1573 | 627 | 2200 | 801 | 2544 | 850 | 1063 | 4500 | 4050 |
| Y1AFA5A | 50 | 1900 | 3645 | 500 | 1913 | 1863 | 647 | 2510 | 900 | 1844 | 950 | 1128 | 5000 | 4500 |

For upper sizes, please ask our design office
Dimensions are given in mm, weight in kg, volume in litres