



Installation Water treatment system

Wastewater

Polyethylene

Storm water

Polyethylene tank
Ellipse / Aronde



Installation instructions delivered with the system remain reference instructions

A - Preface

1- Manoeuvring:

Before attempting to manoeuvre the separator, any residual water in the various compartments shall be pumped out.

Polyethylene tanks are easily damaged by forklift trucks during manoeuvring, proceed with caution.

Do not attempt to push against the separator tank with a forklift.

Any manoeuvring of the separator should be undertaken using appropriate lifting machinery.

In the case of separators equipped with lifting straps **make sure you use all straps simultaneously.**

Once suspended, the separator should be guided by means of ropes.

2 - Delivery and storage:

Make sure, by visual inspection, that the outer shell has not been damaged.

Any defect should be noted on the transporter's delivery document.

Place the separator on chocks, away from any potential risk of impacts. No rain water should be allowed to enter the tank.

3 - Installation:

Under no circumstances fill the tank with water whilst above ground. Should a water tightness test be required, it should only be undertaken after having completed step 5 of this notice. A comparison of the water level should then be made 12 hours after filling.

Under no circumstances should any mechanical compacter be used to stabilise the backfill around the separator.

Under no circumstances should any concrete element be put directly on the separator make a suitable slab.

Always place the separator on a bed of sand.

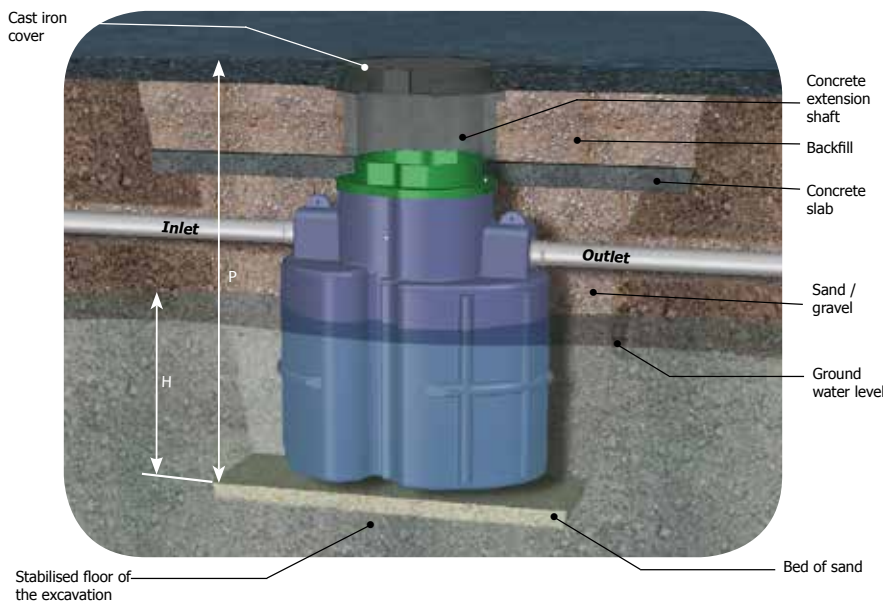
4 - Mechanical strength:

The temperature within the separator should under no circumstances exceed **30°C**.

The manhole cap does not replace the cover.

The separator is designed to withstand a static load corresponding to the following maximum depth of backfill:

ELLIPSE range: P < 2.5m; ARONDE range: P < 2m
(P is defined in the diagram below)



Where the installation depth exceeds the above figures a **load-spreading concrete slab should be poured** (see step 11). **This slab should extend beyond the edges of the excavation.** *The structural dimensions of such a slab should be determined by a civil engineering design office.*

In case of **vehicular traffic**, a load protection slab must be poured regardless of the installation depth.

The presence of **specific dynamic loads** can occasionally require **peripheral reinforcement** in addition to the load-spreading slab (*contact your civil engineering design office*).



The ARONDE range cannot be installed where ground water is present .



Installation

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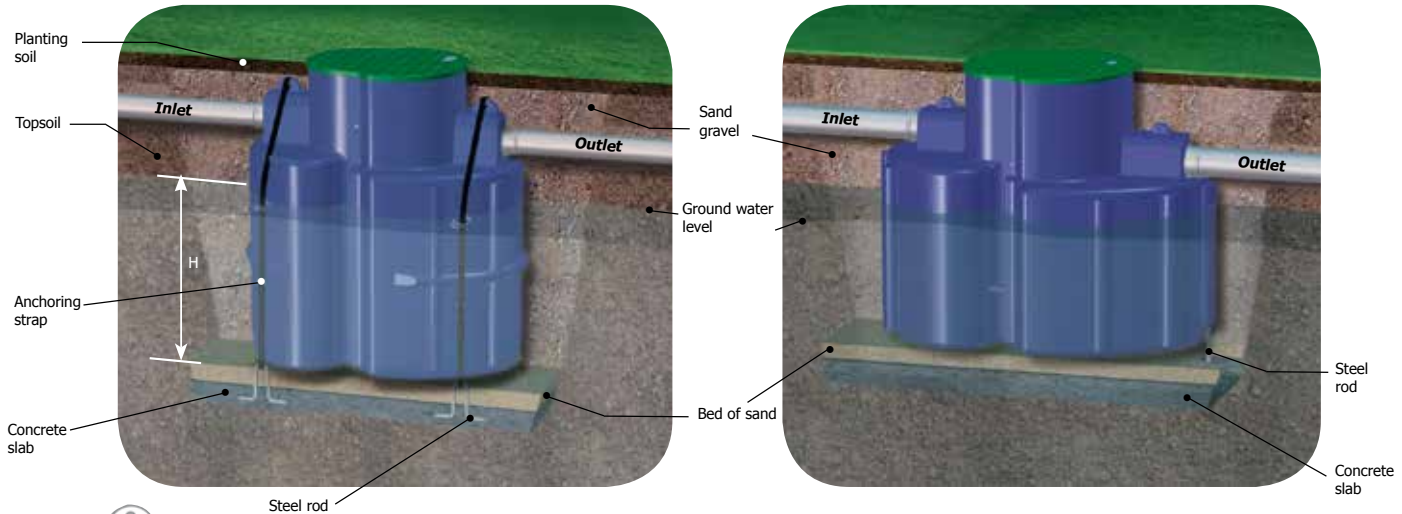
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For the **ELLIPSE range** the maximum depth of the water table (H) is 750 mm if the manhole cover (with no extension) is at ground level. In the case of the separator being buried deeper please contact our design office in order to establish the maximum depth H. (see diagrams below)



Note concerning grease or starch separators: These systems may produce unpleasant odours. It is therefore essential that the inlet and outlet pipes are both correctly ventilated.

B / Installation procedure for underground separators:

- 1 • Stabilise the bottom of the excavation and make sure it is horizontal.
If necessary to anchor the separator (see § 'Mechanical Strength'), pour a concred base slab incorporating steel reinforcement rods.
The necessary volume of concrete should be calculated to compensate the buoyancy of the empty separator
- 2 • Lay a 100 mm bed of sand on the stabilised floor of the excavation.
- 3 • Place the separator in the excavated trench after having removed any protective material.
- 4 • Anchor the separator using the anchoring straps (option). If fixing brackets are supplied, use them for this purpose (see diagram above).
- 5 • Backfill with sand around the separator in layers no more than 300 mm deep.
Fill the separator with water simultaneously and make sure the backfill level and the water level remain balanced.
Stabilise the backfill by hosing each layer with water.
Particular attention should be paid to fill any gaps around the separator.
Continue as described until reaching the level of inlet and outlet pipework.
- 6 • Connect the inlet, outlet and ventilation duct (a ventilation duct is compulsory for grease separators and those equipped with an emptying column).
Sleeves are provided for PVC tube
- 7 • Connect the alarm devices using sleeves for routing the cables.
- 8 • If necessary, raise the float of the closing device until the maximum water level is reached and stable.
- 9 • Backfill with 10-14 gravel up to the level of the manholes shaft.
- 10 • Stabilise the backfilled area by hosing with water.
- 11 • If necessary (see § 'Mechanical Strength'):
 - cut the manhole cap with a knife (BCE) at the level of the groove
 - pour the load-spreading concrete slab.
- 12 • Fit manhole extension shafts and adjust their height to that of the surrounding ground level.
- 13 • Complete backfilling with topsoil.

ARONDE range **cannot be installed where ground water is present** .

For **ELLIPSE range** the maximum depth of the water table (H) is 750 mm if the manhole cover is at ground level (without use of an extension shaft). In case the separator is buried deeper please contact our design office in order to establish the maximum depth H.



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C / Installation procedure for underground separators:



Note: the following references do not require a retaining wall:

EH0501, EH1001, EH2003, EH2501, EH3001, EH4003, ED0340, ED0480, EG0500, EG0501, EG1000, EG1001, EG2000, EG2500, EG3000, EG1501, EG1502.

- 1 • Make sure the soil is stable, level and horizontal. If necessary, pour a base slab to ensure these criteria are met.
- 2 • Build up a retaining wall respecting the dimensions given in the diagram below. A space of 200 mm at least must be allowed between the tank and the wall.
- 3 • Lay a bed of sand 100 mm deep.
- 4 • Place the separator on the bed of sand after having removed any protective material.
- 5 • Backfill with sand around the separator in layers no more than 300 mm deep.
 - Fill the separator with water simultaneously and make sure the backfill level and the water level are balanced.
 - Level and stabilise the backfill by hosing each layer with water.
 - Particular attention should be paid to fill any gaps around the separator.
 - Continue as described until reaching a $2/3 \cdot H$ height.
- 6 • Connect the inlet, outlet and ventilation duct (a ventilation duct is compulsory for grease separators and those equipped with an emptying column).

Sleeves are provided for PVC tube.

- 7 • Connect the alarm devices.
- 8 • Complete filling the separator with water.

In the case of an oil separator, raise the float of the closing device, if necessary, until the correct working water level has been reached and is stable.

