



Installation Water treatment system

Wastewater

Steel

Stormwater

Vertical cylindrical tanks



Installation instructions delivered with the system remain reference instructions

A / Preface

1 - Manoeuvring:

Before attempting to manoeuvre the separator, any residual water in the separator must be pumped out.

Any manoeuvring of the separator should be undertaken using appropriate lifting machinery. Use the lifting lugs or the lifting system indicated in the diagram above. 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, the filling up of the tank 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.

- **No compaction equipment shall be used** to stabilise the backfill around the separator.

4 - Mechanical strength:

- In case of **dynamic loads** or in case of **big depth TN – Fe > 1m** a load-spreading slab is **absolutely necessary** (see step 11).

- In case of **vehicular traffic** shafts or cast iron covers can be used provided that they are supported by adequate load-spreading slabs.

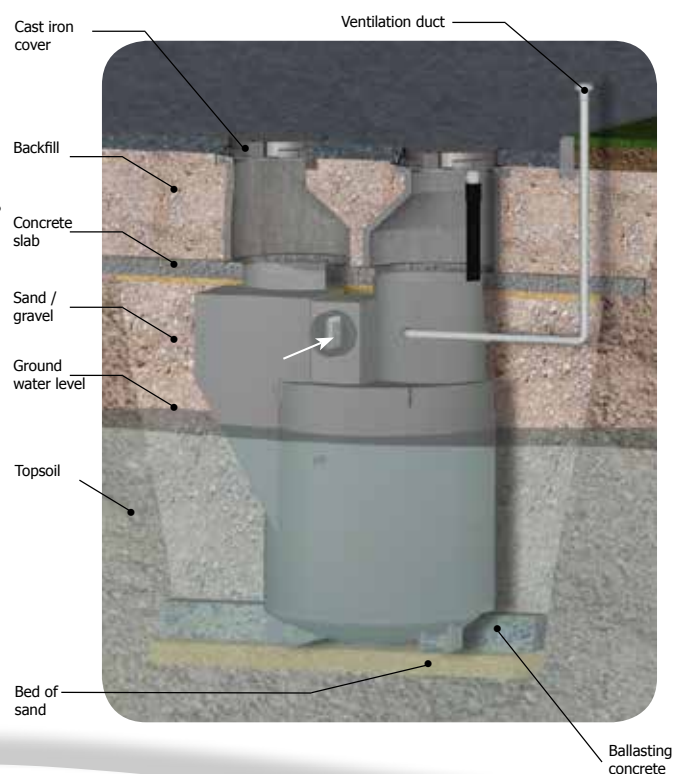
The structural dimensions of such a slab will be calculated by a design office conversant with this field.

- Particular attention should be paid to the presence of **ground water**, hydromorphic soils, or impermeable layer of soil (rock or clay). In case of any risk of flooding, step 3 and/or 10 are compulsory. The structural stability of the separator is guaranteed for **NP < Fe**.

Should the level of the ground water table NP exceed the water level Fe (see diagram), contact Techneau for additional reinforcing of the separator.

B / Installation procedure for underground separator:

- 1 • Stabilise the bottom of the excavation and make sure it is horizontal and flat. .
- 2 • Place the separator on the bed of sand **after having removed the transportation cradle** and the protective material .
- 3 • If necessary to ballast the separator, (see § 'Mechanical Strength') pour concrete around the bottom part. *The necessary volume of concrete should be calculated to compensate the buoyancy of the empty separator .*
- 4 • Backfill around the bottom part of the separator using sand (50%) and 10-14 gravel (50%) 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.
 - Stabilise the backfill by hosing each layer with water
 - Particular attention should be paid to fill any gaps around the separator.
- 5 • Connect the inlet, outlet and ventilation duct (if provided). *Sleeves are provided for PVC tube .*
- 6 • Connect the alarm devices using sleeves for routing the cables.
- 7 • Backfill with 10-14 gravel until the inlet and outlet pipes are covered and keep on filling the separator with water .
- 8 • Complete filling up the separator with water. If necessary, raise the float of the closing device when the water level is stable.



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