

COMPACT FILTERS

for the treatment of domestic
wastewater from 5 to 20 PE



ACTIFILTRE[®]

innovation by RIKUTEC France

MINISTERIAL APPROVALS
ACTIFILTRE 2017-006



Actifiltre 5 PE
2500 - 2500 QR

ACTIFILTRE

INNOVATION BY RIKUTEC FRANCE



PRODUCT ADVANTAGES

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ACTIFILTRE 2017-006



Efficient and unalterable filtering material

- Innovative substrate
- Large filtration capacity of the purifying bacteria
- 97% reduction in Suspended Solids and 95% BOD₅
- No replacement of Filtering Material

Installation in all types of terrain

- In the presence of a groundwater table: see conditions in user manual
- Up to the inlet water line
- Up to 60 cm of backfill
- Standard extensions

Eligible for eco-PTZ

- Economical operation without energy
- Gravity flow
- Main and secondary residences

Easy installation

- Lightweight
- The most compact on the market
- Shallow excavation

Minimal maintenance required

- Simplified annual maintenance
- 20 year warranty on the filter media

Robust single-tank

- Made of HDPE
- Corrosion resistant
- 20 year warranty on the tank

Dimensions

Item name	Item code	Nominal capacity PE	Overall length cm	Total width cm	Total height cm	Total weight kg	Ground coverage m ²	Excavation			Theoretical emptying frequency (month)	Water flow inlet cm	Water flow low outlet cm
								Length cm	Width cm	Volume m ³			
2500-2500 5 EH	36802	5	276	185	158	220	5.12	316	222	11	20	120	6,5
3500-2500 6 EH	36803	6	313	185	158	240	5.79	353	222	12	22	120	6,5
5000-2500 8 EH	36804	7-8	387	185	158	290	7.16	427	222	15	25	120	6,5
6000-4000 12 EH	36805	9-12	524	185	158	410	9.70	565	222	19	19	120	6,5
8000-5000 16 EH	36806	13-16	670	185	158	520	12.39	710	222	24	19	120	6,5
10000-6 000 20 EH	36807	17-20	852	185	158	620	15.76	890	222	31	18	120	6,5

PRÉSENTATION



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DEFINITION OF ACTIFILTRE®:

ACTIFILTRE® is a system for treating domestic or similar wastewater, comprising an all-water septic tank supplying a biological filter made up of unalterable synthetic fibres. By its nature, this innovative substrate has filtering properties far superior to the majority of other substrates traditionally used.

ACTIFILTRE® DESCRIPTION

ACTIFILTRE® includes, in a single tank for models 5, 6 and 8 PE:

- A compartment dedicated to primary treatment equipped with a clogging indicator prefilter and,
- A compartment dedicated to secondary treatment containing an unalterable filter medium based on synthetic fibres..

DESCRIPTION OF ACTIFILTRE® OPERATION

Untreated wastewater passes through the Epubloc all-water tank compartment equipped with its clogging indicator and its performance pre-filter.

The water thus pretreated discharges onto the tipping bucket of the second compartment, the aerobic treatment part of the ACTIFILTRE®. The tipping bucket feeds, sequentially to the left and then to the right, a water distribution plate on the filter media made of unalterable synthetic fibres. The ACTIFILTRE® consists of 3 filtration stages separated from each other by a forced ventilation device (AIR +)

The ribs of the tank particularly contribute to the circulation and the supply of oxygen to the aerobic purifying bacteria attached to the various layers of filtering media. The AIR + concept optimises the purification performance and reduces maintenance operations.

The treated water flows, via the box contained in the ACTIFILTRE®, to the place of discharge of the treated water in accordance with the regulations (filtration or superficial hydraulic medium).



PRÉSENTATION



THE DISTRIBUTION OF PRE-TREATED WATER BY THE ACTIFILTRE® FILTER

The tipping bucket is placed and fixed on the distribution plate.

Tilting to the right then to the left takes place in rotation on rollers made of polyamide, materials which eliminate friction and guarantee the absence of wear.



THE UNALTERABLE SYNTHETIC FILTERING MEDIA AND THE AIR+ CONCEPT:

Each filtration stage consists of synthetic fibres with a large specific surface (from 300 to 900 m² / m³) which increases the treatment surface tenfold.

The 3 stages of filtration are separated from each other by a device ensuring over-aeration, a concept called **AIR +**.

This **AIR +** concept leads to an optimal purification yield for a reduced filtration area.

The **AIR +** concept ensures the renewal of the oxygen essential for purifying bacteria.

This natural convection of oxygen prevents clogging by preventing anaerobic bacteria from growing.

ACTIFILTRE® ACCESSORIES:

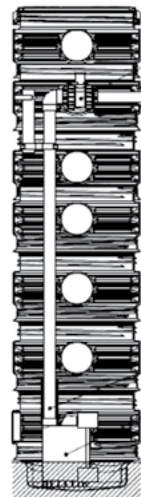


EXTENSIONS with manholes to maintain accessibility and maintain the interior of the structure.



LIFT BOX (art. 37095) to be installed downstream of the ACTIFILTRE, fitted with a pump for discharge of treated water through the outlet

PVC ball valve
FF PN 16 Ø 40



Anti-return flap
1" ¼ NYLON
NOVA 200 pump
(Jetly brand - see specifications on manufacturer's technical sheet)



Dimensions

Part name	Item code	Volume L	Ø Inlet-Outlet mm	Inspection cover mm
Lift Box	37095	-	Ø 100/40	1x400



IN PRACTICE



MAINTENANCE OF THE ACTIFILTRE®:

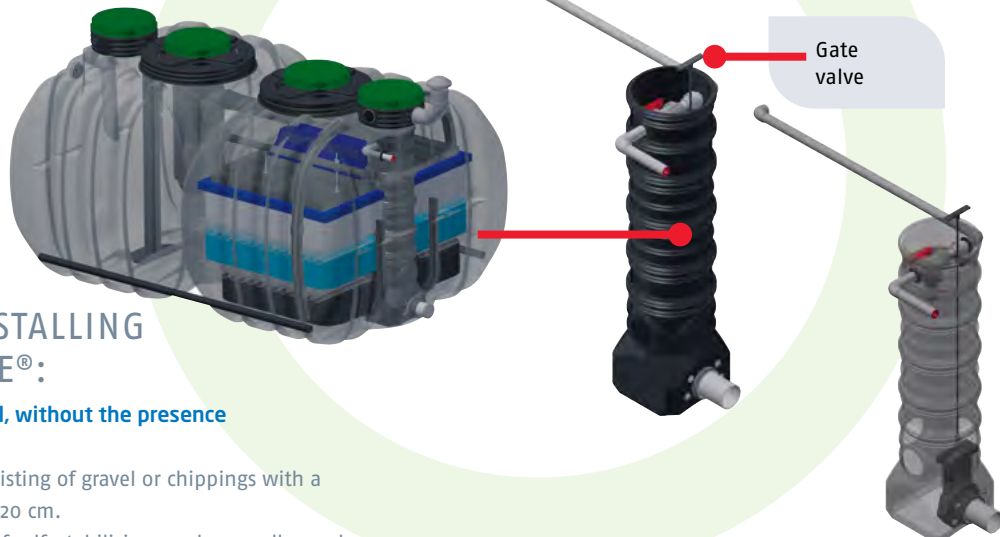
- Annual, easy and quick water-jet cleaning of the following components:
- Pre-filter of the all-water tank compartment,
- Hydraulic distribution system (tipping bucket + distribution plate),

Verification of the following components:

- Hydraulic distribution system (tipping bucket + distribution plate),
- Filter ventilation,
- Good general flow and evacuation of treated water.

Enzymatic cleaning, curative operation if no annual maintenance:

- Hide the low gravity outlet of treated water by actuating the guillotine valve downwards,
- Fill the filter compartment with mains water or rain water until the distribution plate is covered,
- Sprinkle the sachet of specific enzymes on the distribution plates, through the manhole to access the bucket,
- Leave to act overnight,
- Empty the all-water tank compartment,
- Using a lift pump connected to the system, provided for this purpose, empty the washing water to the pit while filling with clear water.



RULES FOR INSTALLING THE ACTIFILTRE®:

In permeable, stable soil, without the presence of groundwater

- laying bed: stable consisting of gravel or chippings with a minimum thickness of 20 cm.
- lateral backfill: made of self-stabilising sand or small gravel and carried out symmetrically on the 4 sides of the system, over a width of at least 20 cm.

The Actifiltre® system must be filled with water simultaneously with the lateral backfilling (to balance the pressures), up to at least 50% of the useful volume for the two compartments.

In impermeable soil or in the presence of groundwater

- laying bed: a reinforced concrete apron to a minimum thickness of 20 cm, equipped with at least 4 anchor hooks per tank
- lateral backfill: made of lean concrete, compacted over a minimum width of 20 cm

The entire Actifiltre® system cannot be "in the water" at a height of more than 1.10 m at any time of the year, measured from the bottom of the tanks making up the Actifiltre® system.

Excavation for an ACTIFILTRE 6 PE

353 cm

222 cm

On slopes of more than 10%:

- Construction of a retaining wall according to specific study, with drainage of runoff water upstream
- Lateral backfill carried out according to the type of ground and the presence or non-presence of a groundwater table.

Below a traffic lane:

- Laying bed and backfill depending on the type of soil and whether or not there is a groundwater table,
- Construction of a reinforced concrete distribution slab sized to bear the expected rolling load. This slab must cover at least 50 cm of undisturbed ground,
- The inspection hatches must remain accessible by installing sealed extensions on the slab fitted with covers suitable for bearing the rolling load.

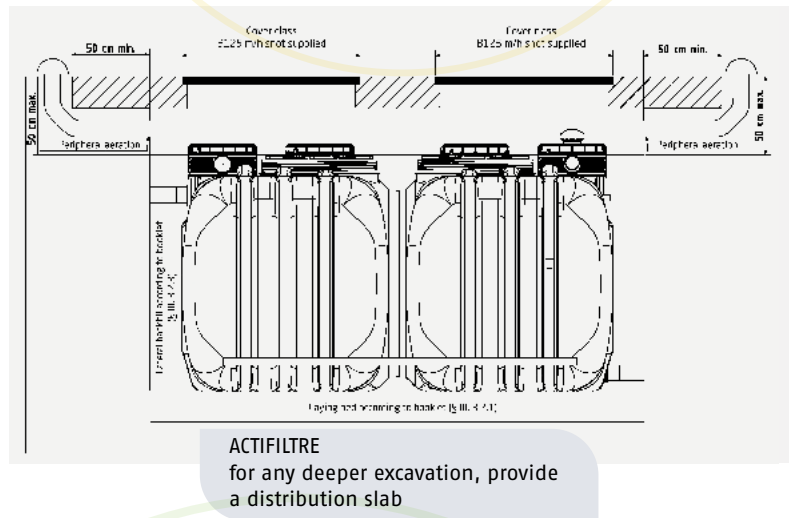
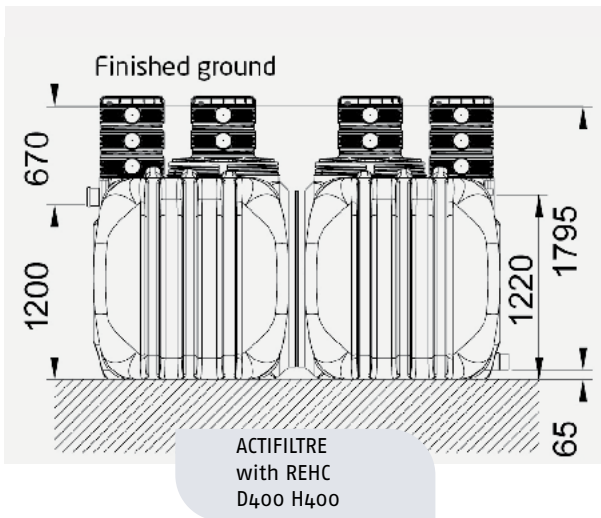
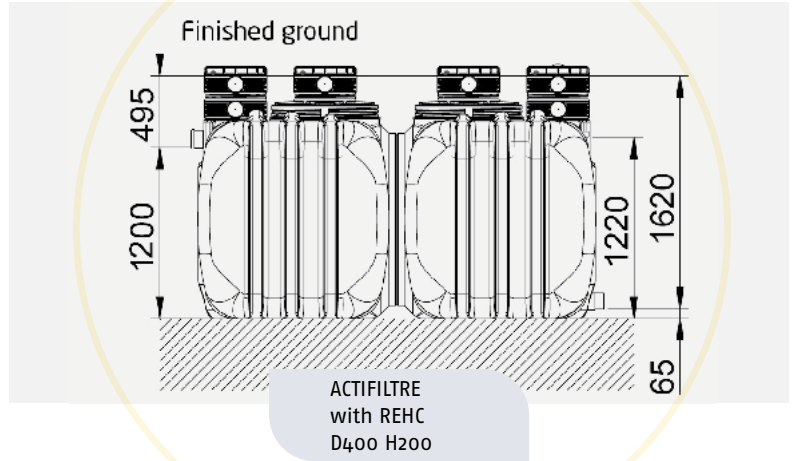
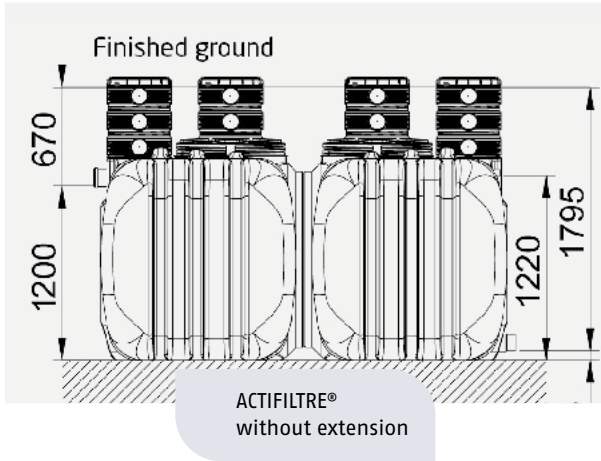
IN PRACTICE



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○ MAINTAINING THE ACCESSIBILITY OF THE ACTIFILTRE® DEPENDING ON THE DEPTH OF INSTALLATION:



Actifiltre® 5 PE
2500 - 2500



IN PRACTICE



VENTILATION OF THE ACTIFILTRE®:

Wastewater, toilets, kitchens and WCs are, by nature, foul-smelling. In order to avoid bad odours, it is essential to extract malodorous gases from these pretreatment works.

The ventilation of the ACTIFILTRE® must be carried out in accordance with the DTU 64-1 standard relating to non-collective sanitation works and must be discharged above the premises...

As part of a rehabilitation, technical or aesthetic constraints may be faced when carrying this out.

In such circumstances, RIKUTEC France offers the following in its range of accessories:

- The SANIFILTRE® dynamic anti-odour filter, a refillable cartridge resistant to humidity (1);
- The combined unit, solar extractor and dynamic anti-odour rechargeable filter (3).



1 - filtre antiodeur Sanifiltre®

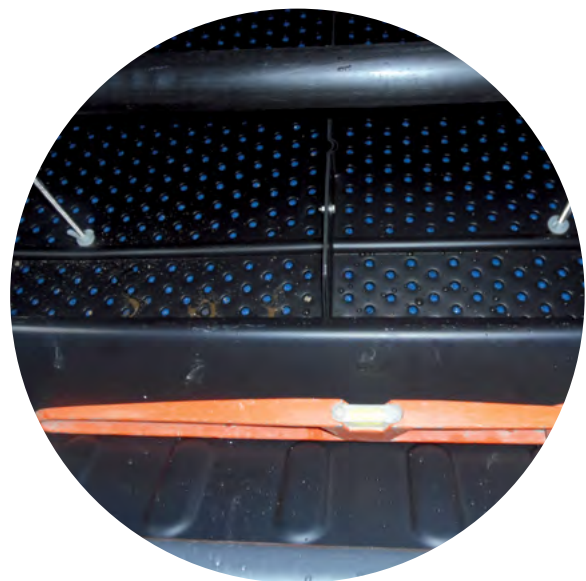


2 - combiné antiodeur

COMMISSIONING THE ACTIFILTRE®:

The commissioning of the ACTIFILTRE® is carried out quickly and simply by the installer, after checking the points set out in Annex D of the ACTIFILTRE® user booklet.

Commissioning is carried out by the company in charge of the installation once the works have been accepted.



ACTIFILTRE® REGISTRATION

The registration of ACTIFILTRE® is carried out following the acceptance of the works by the owner and the installer, by sending Annex B, as set out in the user booklet, within 60 days of installation, or directly to our website:

<https://service.rikutec.fr/enregistr-mon-produit>.

ACTIFILTRE® registration enables the user to benefit from the advantages of the ACTIFILTRE® maintenance contract offered by RIKUTEC France, and the ACTIFILTRE® purification performance guarantee.



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