



# COMPACT FILTERS

for the treatment of domestic waste water  
from 5 to 20 PE



## ACTIFILTRE® innovation according to Sotralentz-Habitat



Actifiltre 5 EH  
2500 - 2500 QR

**SOTRALENTZ-HABITAT**®  
FRANCE 

RIKUTEC Group

# ACTIFILTRE

## INNOVATION ACCORDING TO SOTRALENTZ-HABITAT



### THE + PRODUCTS

AGRÉMENTS MINISTÉRIELS  
ACTIFILTRE 2017-006

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FRANCE

#### Effective and unalterable filter material

- Innovative substrate
- Large filtration capacity of purifying bacteria
- Decrease by 97% in suspended matter and 95% in BOD 5
- No replacement of the Filter Material

#### Installation in all types of terrains

- In the presence of groundwater
- Till the inlet channel
- Up to 60 cm of back-filling
- Standard extensions

#### Eligible for zero-rated eco-loan

- Economical functioning without power
- Gravity flow
- Primary & secondary residences

#### Easy installation

- Light
- The most compact model in the market
- Less deep excavation

#### Minimum maintenance

- Simplified annual maintenance
- 20 years warranty for the filter material

#### Robust single vessel

- Manufactured using HPDE
- Corrosion-resistant
- 20-years warranty for the vessel

### Dimensions

Description	Item code	Rated capacity EH	Total length cm	Total width cm	Total height cm	Total weight kg	Overall floor di-mensions m <sup>2</sup>	Excavation			Theo-retical frequency draining
								Length cm	Width cm	Volume m <sup>3</sup>	
2500-2500 5 EH	36802	5	276	185	158	220	5.12	316	222	11	20
3500-2500 6 EH	36803	6	313	185	158	240	5.79	353	222	12	22
5000-2500 8 EH	36804	7-8	387	185	158	290	7.16	427	222	15	25
6000-4000 12 EH	36805	9-12	524	185	158	410	9.70	565	222	19	19
8000-5000 16 EH	36806	13-16	670	185	158	520	12.39	710	222	24	19
10000-6000 20 EH	36807	17-20	852	185	158	620	15.76	890	222	31	18

# INTRODUCTION



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## DEFINITION OF ACTIFILTRE®

ACTIFILTRE® is a device for treating waste water and similar, comprising an all-water septic tank powering a biological filter consisting of unalterable synthetic fibres.

Owing to its nature, this innovative substrate has filtration properties that are far superior to most of the other traditionally used substrates.

## DESCRIPTION OF ACTIFILTRE®

THE ACTIFILTRE® includes, in a single vessel for the 5, 6 and 8 PE models:

- A compartment dedicated to primary treatment equipped with a clogging indicator prefilter and,
- A compartment dedicated to secondary treatment containing a synthetic fibre-based unalterable filter material.

## DESCRIPTION OF THE FUNCTIONING OF ACTIFILTRE®

The raw waste water passes through the all-water tank compartment Epurbloc equipped with its clogging indicator and performance prefilter.

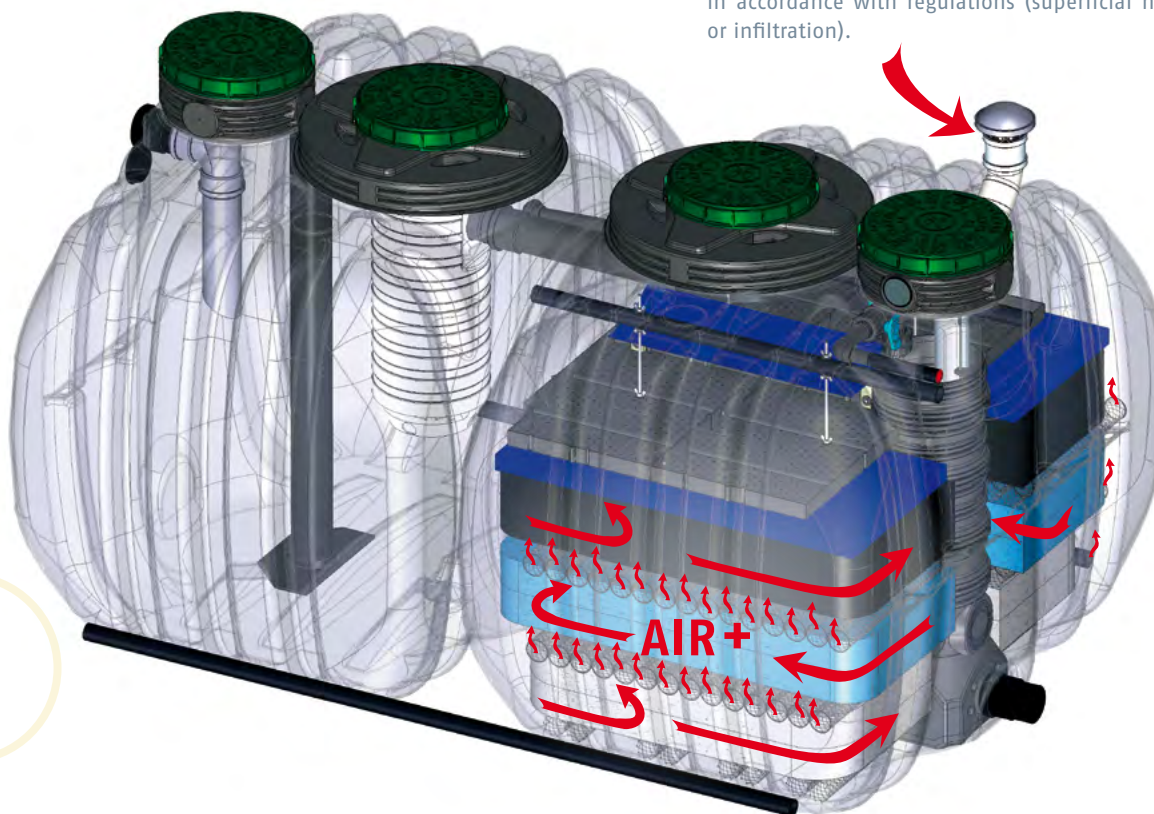
The water that is thus pre-treated flows to the tipping trough of the second compartment, the aerobic treatment part of ACTIFILTRE®. The tipping trough sequentially feeds, left and then right... a water distribution plate on the filter material made of unalterable synthetic fibres.

ACTIFILTRE® comprises 3 stages of filtration separated among themselves by a forced ventilation device (AIR +)

The ribs of the vessel especially contribute to the circulation and oxygenation for the aerobic purifying bacteria fixed on the different layers of the filter material.

The AIR + concept optimises purifying performance and reduces maintenance operations.

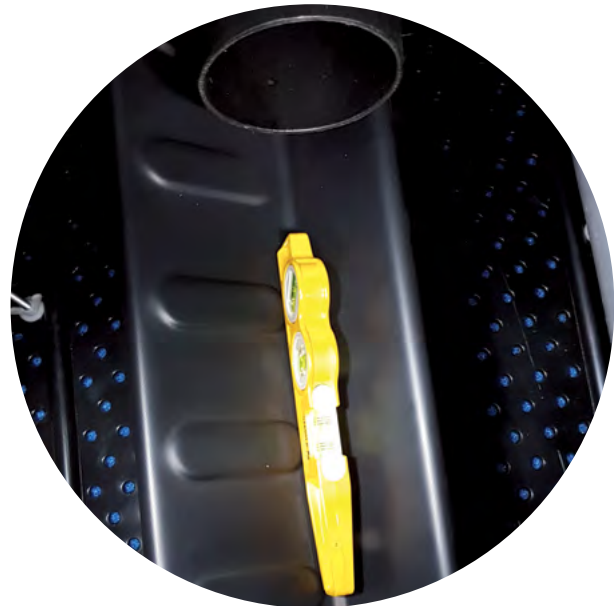
The treated water flows, through the box contained in ACTIFILTRE®, to the place where the treated water is discharged in accordance with regulations (superficial hydraulic medium or infiltration).



# INTRODUCTION



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## ○ THE DISTRIBUTION OF PRE-TREATED WATER ON THE ACTIFILTRE®

The tipping trough is installed and fixed on the distribution plate.

The tipping to the right and then the left is done by rotation on the polyamide roller, materials removing friction and ensuring the absence of wear.

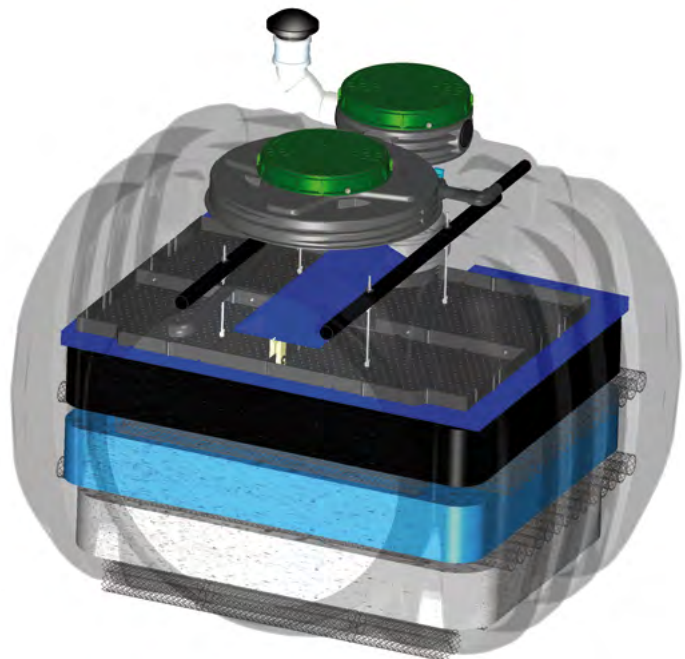
## ○ THE FILTER MATERIAL UNALTERABLE SYNTHETIC AND THE AIR+ CONCEPT

Each filtration stage comprises synthetic fibres having a significant specific surface (300 to 900 m<sup>2</sup>/m<sup>3</sup>) that increases the treatment surface.

The 3 filtrations stages are separated by a device ensuring overaeration, concept called AIR+.

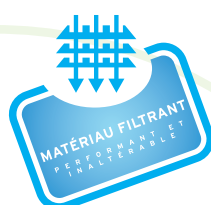
This AIR+ concept leads to an optimal purification yield for a reduced filtration surface.

The AIR+ concept ensures the restoration of the oxygen that is indispensable for the purifying bacteria. This natural oxygen convection prevents any clogging by preventing the anaerobic bacteria from developing.



## ○ ACCESSORIES OF ACTIFILTRE®

Inspection cover extensions to maintain the accessibility of the inside of the structure and provide for maintenance.



# IN PRACTICE



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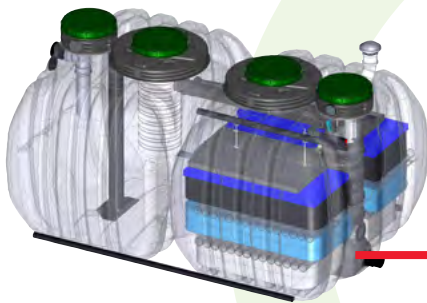


## MAINTENANCE OF ACTIFILTRE®

- Quick and easy annual cleaning, using a water jet, of the following elements:
- Prefilter of the all-water tank compartment,
- Hydraulic distribution system (tipping trough + distribution plate),

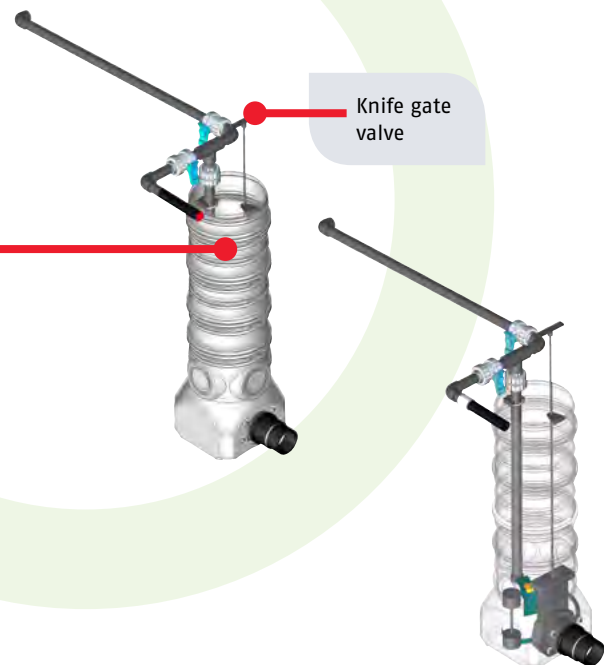
### Checking of the following elements:

- Hydraulic distribution system (tipping trough + distribution plate),
- Ventilation of the filter,
- Proper overall flow and evacuation of the treated water.



## Enzymatic cleaning, corrective operation for annual maintenance defect:

- Hide the lower gravity outlet of the treated water by pressing the knife gate valve downwards,
- Fill the compartment of the filter with water from the system or rainwater till the distribution plate is submerged,
- Sprinkle the sachet of specific enzymes on the distribution plates, through the inspection cover for access to the trough,
- Leave overnight,
- Drain the all-water tank compartment,
- Using a lift pump connected to the device provided for this purpose, send the washing water to the tank being filled with treated water.



## RULES FOR THE INSTALLATION OF ACTIFILTRE®

### General:

10 cm bed face and 20 cm thick lateral back-filling.

### On permeable terrain, stable without phreatic water or spring:

- Bed face made of self-stabilising sand avoiding the wash-out of the back-filling, for example calcareous sand or stabilised sand,
- Lateral back-filling made of self-stabilising sand avoiding the wash-out of the back-filling, for example calcareous sand or stabilised sand,

### On unstable and impermeable terrain, without phreatic water:

- Bed face made of stabilised sand (200 kg cement per m<sup>3</sup> of sand),
- Lateral back-filling made of stabilised sand.

### In the presence of phreatic water:

- Bed face made of concrete dosed at 250 kg,
- Lateral back-filling made using a weighting concrete dosed at 250 kg over 75 cm of height from the bottom of the vessel, by coating of the mooring rods provided for this purpose,
- Final lateral back-filling made of stabilised sand (200 kg cement per m<sup>3</sup> of sand).

### On terrain with a slope greater than 10%:

- Building of a supporting wall according to specific study, with drainage of the upstream run-off rainwater
- Lateral back-filling completed depending on the type of terrain and whether or not the groundwater is present.

### Under traffic lane:

- Bed face and back-filling depending on the type of terrain and whether or not phreatic water is present.
- Creation of a distribution block made of reinforced concrete dimensioned to receive the planned rolling load. This block must cover at least 50 cm of non-turned terrain,
- The inspection covers should remain accessible by the installation of sealed extensions on the block and equipped with covers that are suitable to receive the rolling load.

Excavation for ACTIFILTRE 6 EH

353 cm

222 cm

# EN PRATIQUE

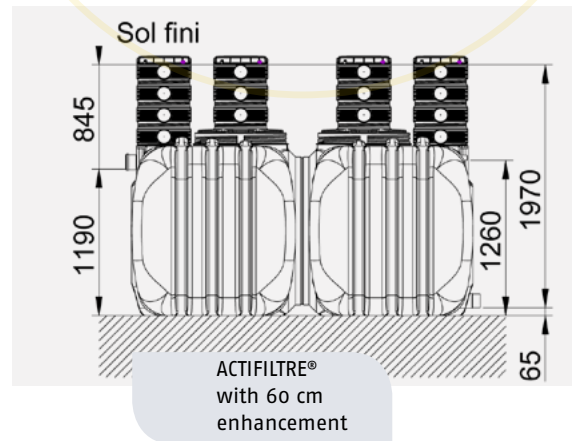
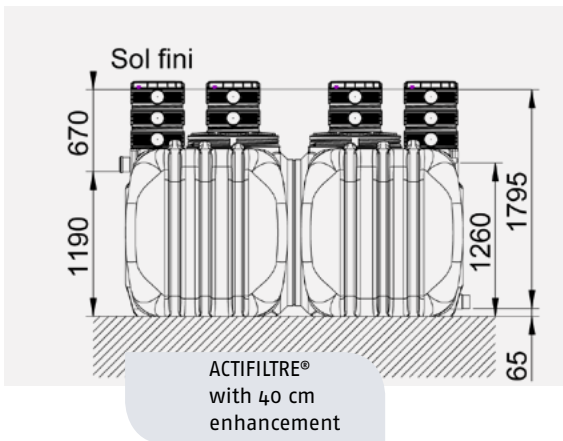
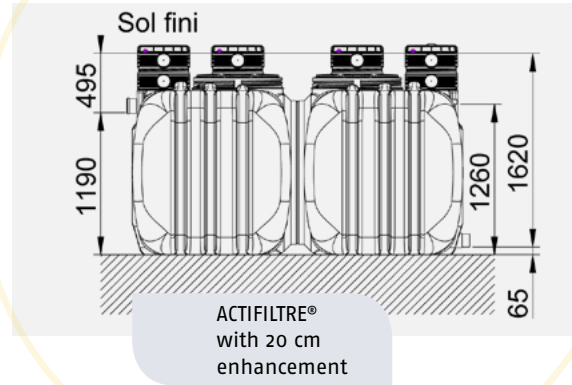
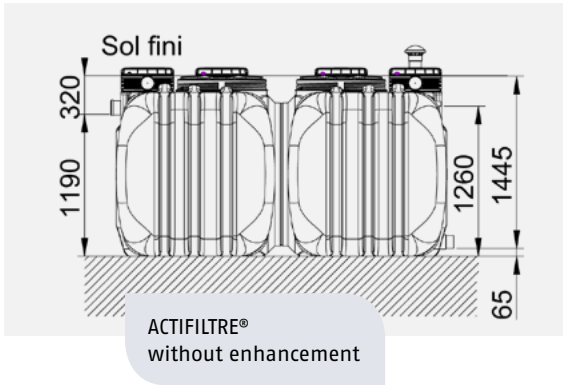


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## MAINTENANCE OF THE ACCESSIBILITY OF ACTIFILTRE® DEPENDING ON THE DEPTH OF INSTALLATION

up to 60 cm of bank with standard enhancement



## IN PRACTICE



### VENTILATION OF ACTIFILTRE®

Waste water, lavatories, kitchen and WC are by nature quite foul-smelling. In order to avoid the stench, it is indispensable to extract the foul-smelling gases from these pre-treatment structures. The ventilation of ACTIFILTRE® should be executed in accordance with the DTU [French building code] 64-1 relating to non-collective land improvement operations and should go up above the place of residence...

In the context of a rehabilitation, one can encounter technical or aesthetic constraints for the execution of the latter.

Under these circumstances, Sotralentz Habitat France's range of accessories offers:

- The anti-odour dynamic filter SANIFILTRE®, refillable and moisture-resistant cartridge (1);
- The Solar extractor for continuous, silent and autonomous evacuation of gases (2), day and night, all year around;
- The combination of solar extractor and refillable anti-odour dynamic filter (3).



1 - Sanifiltre® antistench filter



2 - solar extractor

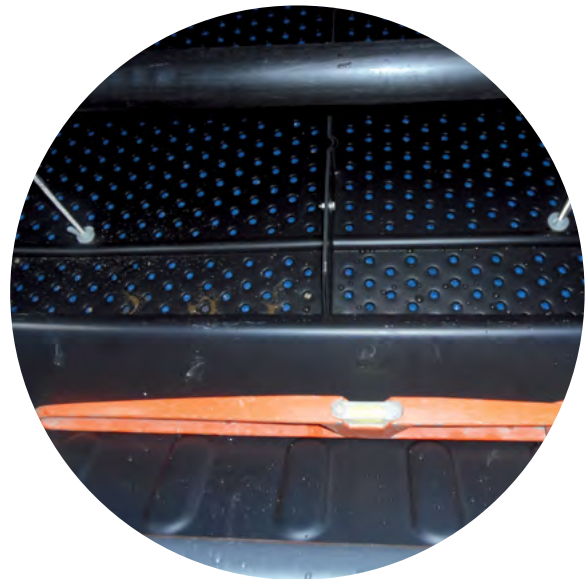


3 - combined antistench

### COMMISSIONING OF ACTIFILTRE®

The quick and easy commissioning of ACTIFILTRE® is carried out by the installer after verification of the points stated in appendix D of the ACTIFILTRE® operator's booklet.

The commissioning is carried out during the acceptance of the works by the company in charge of installation.



### REGISTRATION OF ACTIFILTRE®

The registration of ACTIFILTRE® is carried out at the end of the acceptance of works by the owner and the installer by sending appendix B provided in the operator's booklet, within 60 days following installation.

The registration of ACTIFILTRE® allows the user to avail of the advantages of the maintenance contract of ACTIFILTRE® offered by SOTRALENTZ HABITAT France, and the purifying performance warranty of ACTIFILTRE®.





SOTRALENTZ-HABITAT FRANCE SAS - R.C. Savame - RCS 824 786 527 00020 - Actifilire 01-1 - 03/2018  
Documents et photos non contractuels - Sous réserve de modifications techniques.  
Illustrations 3D, photos et schémas: Sotralentz, Shutterstock, Fotolia, Christian Staebler.  
Imprimerie: Scheuer, Drulingen (67).

## OUR TEAM IS AT YOUR SERVICE



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