

## CENTRIFUGAL AND MEMBRANE HYDRODYNAMIC SEPARATOR

POLYETHYLENE (PE)  
BURIED LAYING



*Redonnons le meilleur à la terre*

6500

### 1 Description

Rainwater recovered after runoff is responsible for various polluting deposits, particularly in particulate form. These particles will generate suspended solids (MES) which constitute water pollution in 90% solid and undissolved form.

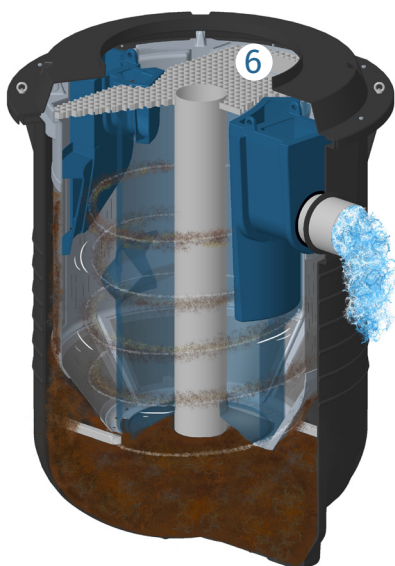
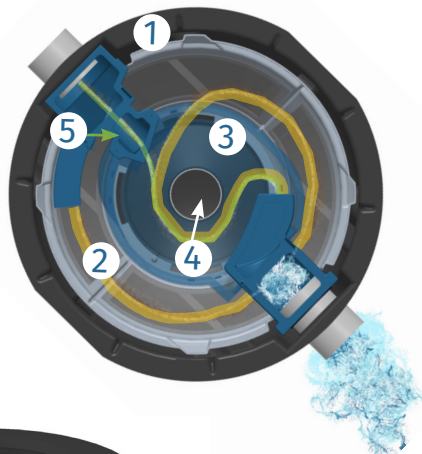
Trithon is intended for the settling of solid particles with a density of between 2.5 and 3 contained in rainwater and the retention of solid floating particles with a density of 0.9 and 0.95.

The claimed principle is based on the so-called hydrocyclone technology which allows sedimentation by the effect of centrifugal force.

Trithon can receive flows from 5 to 20L/s, and up to 25L/s (125% of nominal flow) in degraded mode.

The range consists of two products :

- TRITHON5/25 can receive flows from 5 to 20L/s and up to 25L/s (125% of the nominal flow) in degraded mode
- TRITHON3/15 can receive flows from 3 to 12L/s and up to 15L/s (125% of the nominal flow) in degraded mode



### 2 Functioning

Trithon® is concentrically composed:

- ① an external area separated from the processing compartments by selective walls,
- ② a 1st compartment through which the flow enters the system tangentially,
- ③ a 2nd finishing compartment,
- ④ a central access tube to the sludge storage area (for checks and emptying).

Trithon® is also equipped with an overflow ⑤ management device which allows partial treatment in the event of high flow (between 100 and 125% of the nominal flow).

- ⑥ A technical platform is installed on top of the device and allows servicing and maintenance.

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## 3 Advantages

- ☞ Technology and Efficiency tested by the CSTB certified laboratory
- ☞ The Trithon technology has been submitted to ETV, the European program responsible for verifying the performance of innovative environmental technologies.
- ☞ Powerful processing: Honorable yield
- ☞ Durability: PE corrosion resistant
- ☞ Ready to install
- ☞ Easy operation and maintenance: suction of sludge and floating materials via 2 guide tubes and cleaning system with spray nozzles included.
- ☞ Technical floor
- ☞ Inlet water level = outlet water level

## 4 Features

- ☞ Parkings
- ☞ Roads
- ☞ Car scrapyards
- ☞ Waste collection centers
- ☞ Airports
- ☞ Port areas
- ☞ Upstream retention or infiltration basin
- installations classified for Environmental protection purposes (ICPE)

## 5 Claims and verifications

Performance claims have been validated by the CSTB and verified by the European verification program ETV

- ☞ Average yield per cumulative particle size fraction (with an empty sludge storage compartment)

Size fraction	Feed (%)	Feed (%)	Feed (%)	Feed (%)	Feed (%)
	25	50	75	100	125
Flow rate (L/s) TRITHON3/15	3	6	9	12	15
Flow rate (L/s) TRITHON5/25	5	10	15	20	25
≥ 50µm	91%	78%	67%	59%	54%
≥ 63µm	95%	84%	74%	65%	60%
≥ 75µm	97%	88%	79%	71%	65%
≥ 100µm	99%	94%	89%	81%	75%
≥ 150µm	100%	99%	94%	90%	90%
<b>Average yield</b>					

- Fed at 100%, i.e. at the nominal flow rate, the efficiency on thermoplastic floats is 99.9
- Trithon system efficiency when the storage part is half full and at 125% of the nominal size (in degraded mode): the release has practically no impact on the efficiency (1.85% on average)

### OPTIONS

- RH2/TRIT extension Ø 600, height 800 mm, cuttable over 300 mm
- RCB602-20: precast concrete load distributor (only with RH2/TRIT extension)
- ANH22/14310-N: Visual and audible alarm for light liquids with 220V power supply (only 1 hydrocarbon probe possible)
- ANH22/14320: Visual and audible alarm for light liquids with 220 V power supply (3 possible probes)
- ANH22/14506: Alarm with power supply for light liquids by solar panel
- SNB/14220: Sludge level sensor (please provide an ANH22/14320 or ANH22/14506 box)
- CA3/6394/3T/2 Set of 2 anchor belts 3 tons (be careful, plan 2 sets since 4 anchor points)

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**SIMOP**  
EQUIPEMENTS POUR L'ENVIRONNEMENT

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## 6 Handling - installation

Refer to the PTRITPE leaflet.

## 7 Garantie

The winery benefits from a 20-year guarantee.

## 8 Maintenance

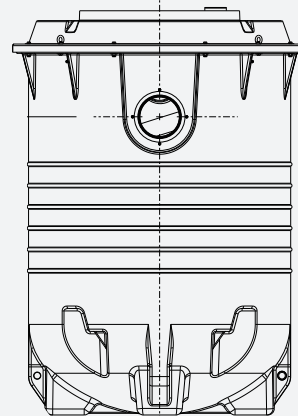
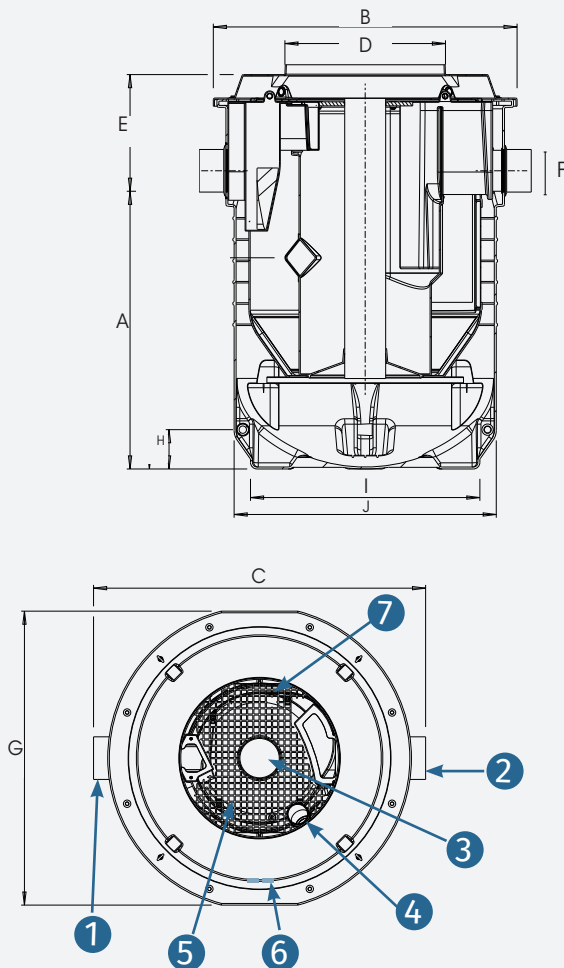
Aspirate the floaters.

Periodically empty the device (sludge height of the storage compartment reaches 80% of its capacity) the bottom of the tank.

Clean the membrane walls.

A spray nozzle cleaning system is available.

Refer to the E150 manual.



- 1 - Entrance
- 2 - Exit
- 3 - Tube for sludge suction passage
- 4 - Tube for floating suction passage
- 5 - Technical floor
- 6 - Cable gland for passage of alarm probe cable
- 7 - Connection to the spraying system in 1.1/2 female thread (the drainer must provide a 1.1/2 hose with female adapter)

Reference	A	B Ø	C	D Ø	E	F Ø	G	H	I	J
TRITHON3/15	1550	1554	1757	980	665	200	1494	195	1130	1300
TRITHON5/25	1695	1854	2027	980	712	250	1794	240	1400	1600

Reference	Flow range	Nominal flow rate	Peak flow	Trap volume	Storage of floats	Weight
TRITHON3/15	3 to 15 L/s	12 L/s	15 L/s	240 L	375 L	250 Kg
TRITHON5/25	5 to 25 L/s	20 L/s	25 L/s	725L	615L	350 kg