MAINTENANCE MANUAL
HYDRODYNAMIC SEPARATOR TANK
POLYETHYLENE (PE)

TRITHON

SIMOP
EQUIPEMENTS POUR L'ENVIRONNEMENT

Redonnons le meilleur à la terre

E150

1 Sludge trap section (sludge trapping)

The sludge trap is located at the bottom of the device, it must be emptied at least once a year or as soon as the quantity of stored sludge reaches a volume equal to 80% of the storage capacity or when the sludge alarm is triggered.

2 Floats storage part

Floats and light liquids will be stored in the upper part of the device, they can be evacuated by draining and via a tube.

3 Equipment to be provided

- Emptying truck with sludge compartment and clean water compartment
- Scale

4 Safety instructions

The workers must have the CATEC (Certificate of Ability to Work in Confined Spaces).

The regulations and decrees concerning the prevention of accidents and the handling of hazardous materials must be respected.

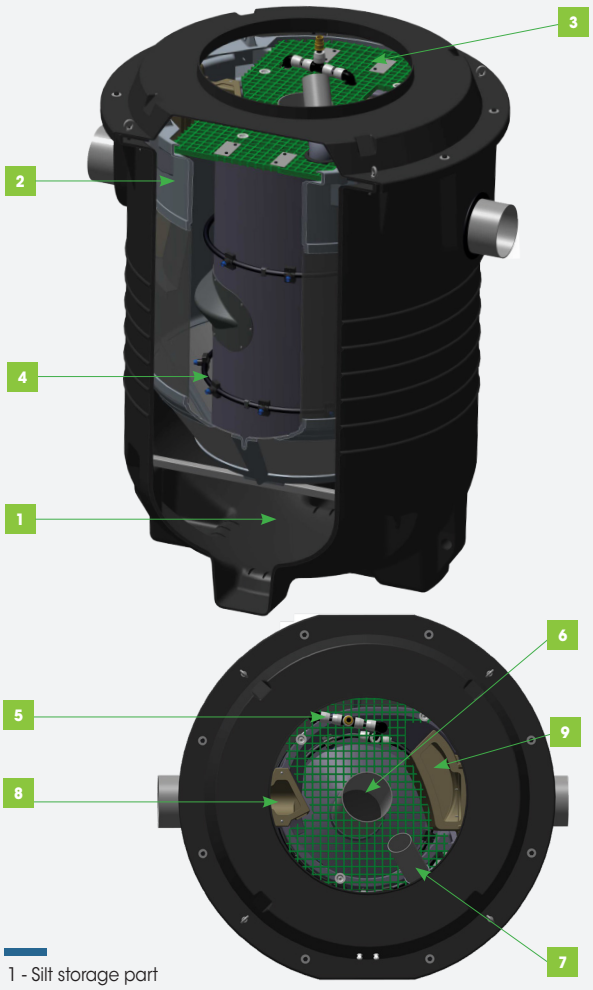
5 Maintenance

The maintenance of the device must be carried out at least every 3 months if there is no sludge probe or every 6 months if there are level alarm. Maintenance must be carried out by qualified personnel. It consists of :

1 - Check that the oil and sludge alarm is working properly (perform a test: refer to the manual supplied with the alarm) .

2 - If there is no sludge probe, measure the volume of sludge with a sludge rod or a pigeon.

3 - Check that the inlet and outlet boxes are not obstructed



1 - Silt storage part
Floats storage part
3 - Technical floor
4 - Cleaning boom with spray nozzles
5 - Cleaning ramp connection
6 - DN200 pipe for access to sludge storage area
7 - DN125 pipe for skimming action access
8 - Input box
9 - Output box

6 Annual maintenance

1 - Skim the upper part by sucking up the elements via the DN80 tube, the drainer will have to pass its suction tube in the DN125 tube and go down progressively to suck up a maximum of elements (volume of floats = 615L) A →

2 - Drain the sludge: plunge the draining tube into the DN200 tube to the bottom of the device (sludge volume: 725L) B →

3 - Clean the membranes via the spray bar system: connect to the 1 1/2 inch threaded system via a hose and a 1, 1/2 inch male adapter not supplied, and inject clean water for 30 seconds C →

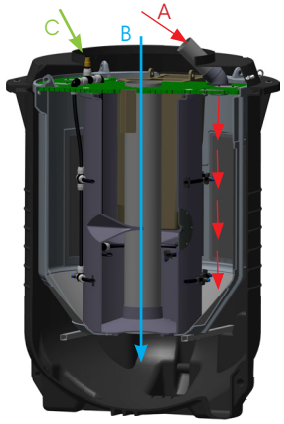
4 - drain the bottom of the unit again

5 - check that there is no clogging at the inlet (branch...)

6 - clean the probes using a detergent and a clean cloth

7 - fill with clean water up to the water line

8 - Check that the oil and sludge alarm is working properly (perform a test: refer to the manual supplied with the alarm)



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7 If an alarm is triggered

A / Sludge level alarm

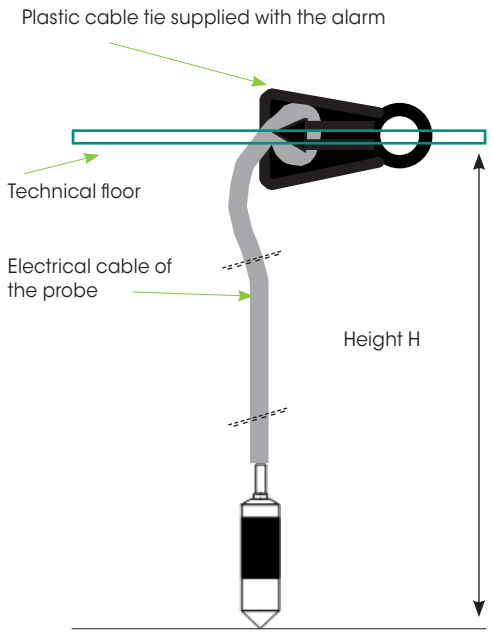
1 - Extract the probe
2 - place the drain hose at the bottom of the unit, and lower the level by 600 mm
3 - proceed to the clean water
4 - clean the probe using a detergent and a clean cloth
5 - check the correct operation of the sludge alarm (perform a test, refer to the manual supplied with the alarm)

B / Hydrocarbon alarm

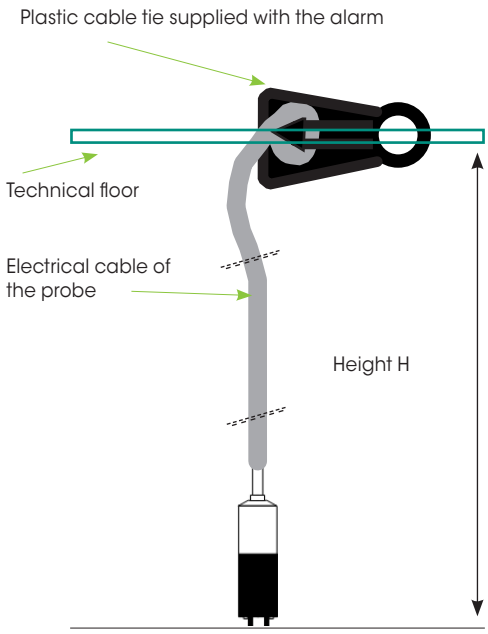
1 - Extract the probe
2 - skimming the hydrocarbon layer in the separator compartment
3 - proceed to the clean water
4 - clean the probe using a detergent and a clean cloth
5 - check that the hydrocarbon alarm is working properly (perform a test, refer to the manual supplied with the alarm)

Reference	**Shell diameter** (mm)	**Diameter input/output** (mm)	**Flow rate between** (L/s)	**Sludge trapping volume** (L)	**Float storage volume** (L)	**Adjustment of the hydrocarbon level probe** (in relation to the technical floor level, in mm)	**Setting the sludge probe** (in relation to the technical floor level, in mm)
TRITHON3/15	1300	200	3 à 15	240	375	890	1540
TRITHON5/25	1600	250	5 and 25	725	615	870	1810

SETTING THE HYDROCARBON LEVEL SENSOR



ADJUSTMENT OF THE SLUDGE PROBE



Reference	Light liquid probe, height H	Sludge probe, height H
TRITHON3/15	890	1540
TRITHON5/25	870	1810

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Maintenance record sheet

DATE	NAME OF THE MAINTENANCE COMPANY	NAME TECHNICIAN	TYPE OF OPERATION (check the boxes on the actions performed)	REPORT (Cross out the unnecessary)	OBSERVATIONS (Specify action to be taken if necessary)
			☐ Checking the operation of the hydrocarbon alarm	Clear / trigger action	
			☐Checking the operation of the sludge alarm	Clear / trigger action	
			☐Manual sludge level measurement	Clear / trigger action	
			material used :		
			measured volume : ....Liters		
			☐Input box status check	Clear / trigger action	
			☐Checking the output box status	Clear / trigger action	
			☐Other		
			☐ Checking the operation of the hydrocarbon alarm	Clear / trigger action	
			☐Checking the operation of the sludge alarm	Clear / trigger action	
			☐Manual sludge level measurement	Clear / trigger action	
			material used :		
			measured volume : ....Liters		
			☐Input box status check	Clear / trigger action	
			☐Checking the output box status	Clear / trigger action	
			☐Other		
			☐ Checking the operation of the hydrocarbon alarm	Clear / trigger action	
			☐Checking the operation of the sludge alarm	Clear / trigger action	
			☐Manual sludge level measurement	Clear / trigger action	
			material used :		
			measured volume : ....Liters		
			☐Input box status check	Clear / trigger action	
			☐Checking the output box status	Clear / trigger action	
			☐Other		
			☐ Checking the operation of the hydrocarbon alarm	Clear / trigger action	
			☐Checking the operation of the sludge alarm	Clear / trigger action	
			☐Manual sludge level measurement	Clear / trigger action	
			material used :		
			measured volume : ....Liters		
			☐Input box status check	Clear / trigger action	
			☐Checking the output box status	Clear / trigger action	
			☐Other		
			☐ Checking the operation of the hydrocarbon alarm	Clear / trigger action	
			☐Checking the operation of the sludge alarm	Clear / trigger action	
			☐Manual sludge level measurement	Clear / trigger action	
			material used :		
			measured volume : ....Liters		
			☐Input box status check	Clear / trigger action	
			☐Checking the output box status	Clear / trigger action	
			☐Other		

Annual maintenance record sheet

DATE	NAME OF THE MAINTENANCE COMPANY	NAME TECHNICIAN	TYPE OF OPERATION (check the boxes on the actions performed)	OBSERVATIONS (Specify action to be taken if necessary)
			☐ scrubbing of the surface ☐ sludge emptying ☐ membrane cleaning Means used: ☐ spray boom ☐ Other: .... ☐ cleaning of input box ☐ outlet box cleaning ☐ checking the operation of the hydrocarbon alarm ☐ Checking the operation of the hydrocarbon alarm ☐ Checking the operation of the sludge alarm ☐ cleaning of the hydrocarbon alarm probe ☐ filling with clean water ☐ Other	
			☐ scrubbing of the surface ☐ sludge emptying ☐ membrane cleaning Means used: ☐ spray boom ☐ Other: .... ☐ cleaning of input box ☐ outlet box cleaning ☐ checking the operation of the hydrocarbon alarm ☐ Checking the operation of the hydrocarbon alarm ☐ Checking the operation of the sludge alarm ☐ cleaning of the hydrocarbon alarm probe ☐ filling with clean water ☐ Other	
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