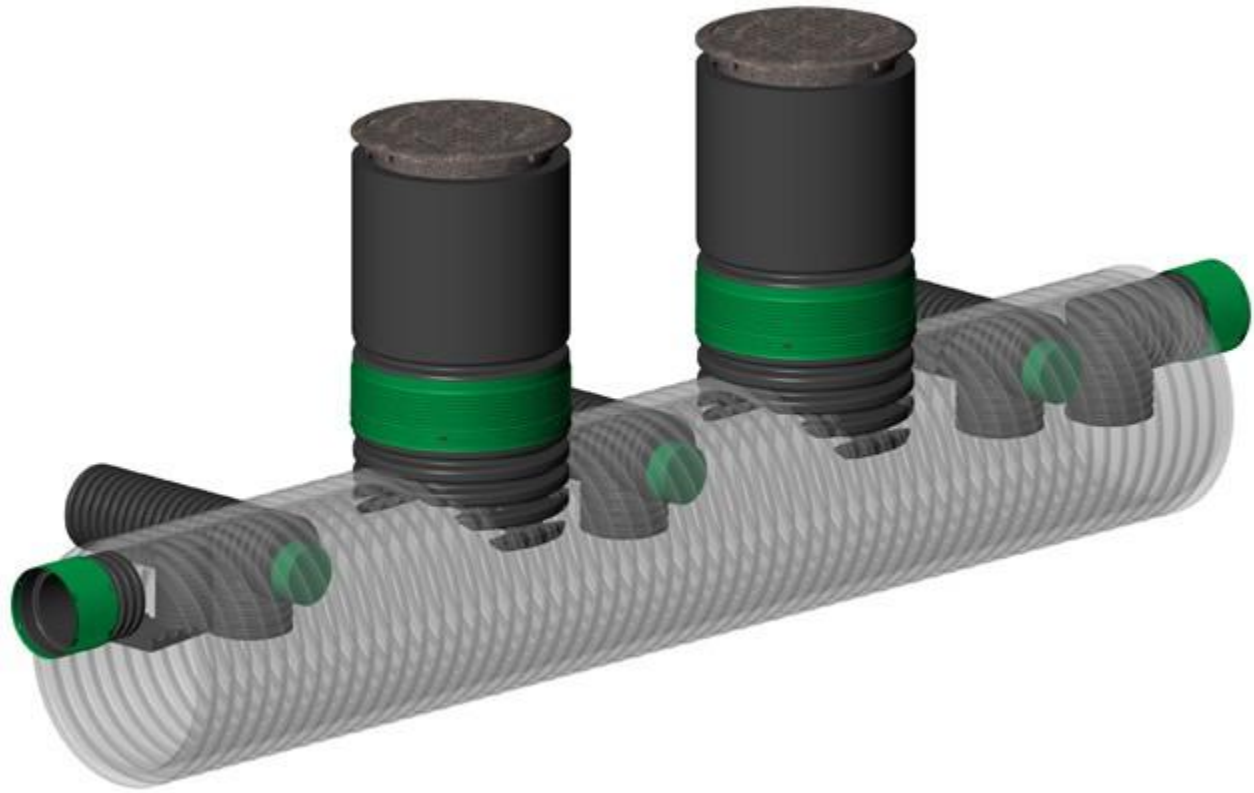


PRETREATMENT UNIT

MAINTENANCE GUIDE

OPERATION OF THE PRETREATMENT UNIT

The pretreatment unit captures sediments, hydrocarbons, and floating debris. Its maintenance is simple, quick, and does not require any confined space work. To operate at full efficiency, the system must be maintained regularly. Specialized companies, such as Soleno Service[1], can inspect and maintain this type of equipment.

[1] Contact your Soleno representative for more information about the services offered by Soleno Service or visit our website at **www.soleno.com**.

STEPS

1. Inspection frequency
2. Inspection
3. Maintenance

STEP 1
INSPECTION FREQUENCY

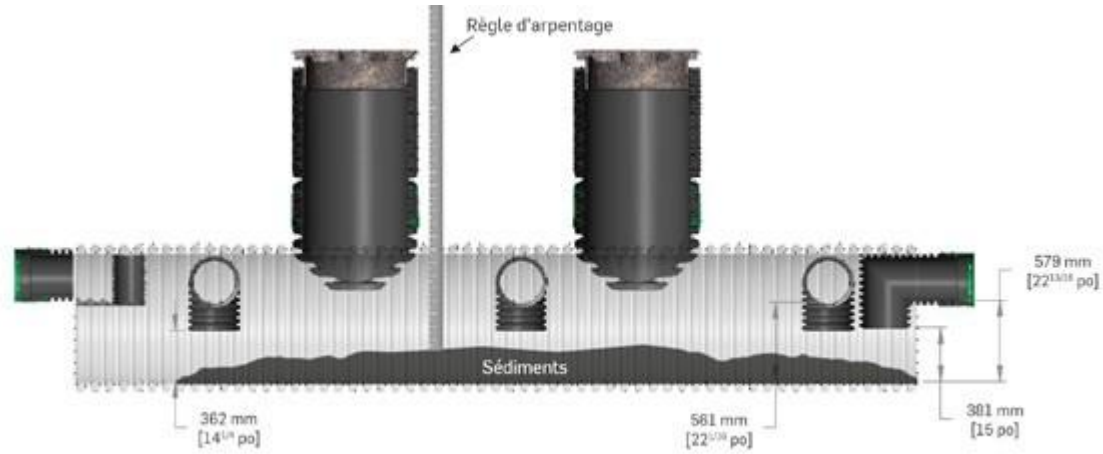
The environment in which the pretreatment unit is installed greatly influences the frequency of inspection and maintenance. Therefore, it is recommended to inspect the system every three months during the first year to prevent excessive accumulation of debris that could compromise the system's performance. It is strongly advised to carry out the first inspection as soon as the installation is complete.

Subsequently, based on the data collected during the first year of operation, an inspection frequency can be established.

STEP 2
INSPECTION

The pretreatment unit does not require any confined space work. Inspection and maintenance are carried out from the surface.

a. Remove one of the access covers (cast iron).
b. Place carefully a surveying ruler (or any other measuring equipment) on top of the sediments.
c. Read the distance from the top of the sediment to the top of the cast iron cover.
d. Subtract this distance from the initial distance (measured when the system was started). The resulting value is the sediment depth.
e. Repeat steps 2a) to 2d) for the other access shaft
f. If the sediment height exceeds one-quarter of the diameter of the pretreatment unit (for example, 230 mm (9 in) for a pretreatment unit with a diameter of 900 mm (36 in)) or if oil or hydrocarbons are present, proceed with maintenance.
g. Put the access covers back in place.



STEP 3
MAINTENANCE

a. Remove one of the access covers (cast iron).
b. Insert the suction hose into the access shaft.
c. Vacuum the contents of the system.
d. Repeat steps 3a) to 3c) for the other access shaft.
e. If debris are still present at the bottom of the unit, pressure rinse the entire system.
f. Visually inspect the general condition of the system to detect any anomalies or damage.
g. **Important:** Fill the system with water (up to the invert level of the inlet and outlet pipes) .
h. Put the access covers back in place.



Important: The disposal of residues must comply with federal, provincial and local regulations.

An example of maintenance sheet that the inspector will use during the inspection of the pretreatment unit can be found in Appendix A.

SOLENO
MASTERING WATER SUSTAINABLY

APPENDIX A
Maintenance sheet

MAINTENANCE SHEET HYDROSTOR[MD]

SOLENO
MASTERING WATER SUSTAINABLY

Location of the system: _____

Resp. for inspection: _____

Date : _____

System type: _____

System dimension: _____

SYSTEM OBSERVATION

Time elapsed since last maintenance (months): _____

Sediment thickness at the bottom of the unit (mm): _____

Presence of waste and debris (Y/N): _____

Damage to the unit (Y/N): _____ **Details:** _____

Estimated flow rate at the system inlet (if available) (L/min): _____

SITE OBSERVATION (comments)

Sediment accumulation on the surrounding ground: _____

Visible erosion near the system: _____

COMPLETED MAINTENANCE

Removal of waste and/or debris (Y/N): _____ ***Details:*** _____

Minor reparation of the system (Y/N): _____ ***Details:*** _____

Sediment removal (Y/N): _____ ***Estimated qtt:*** _____

NOTES: _____