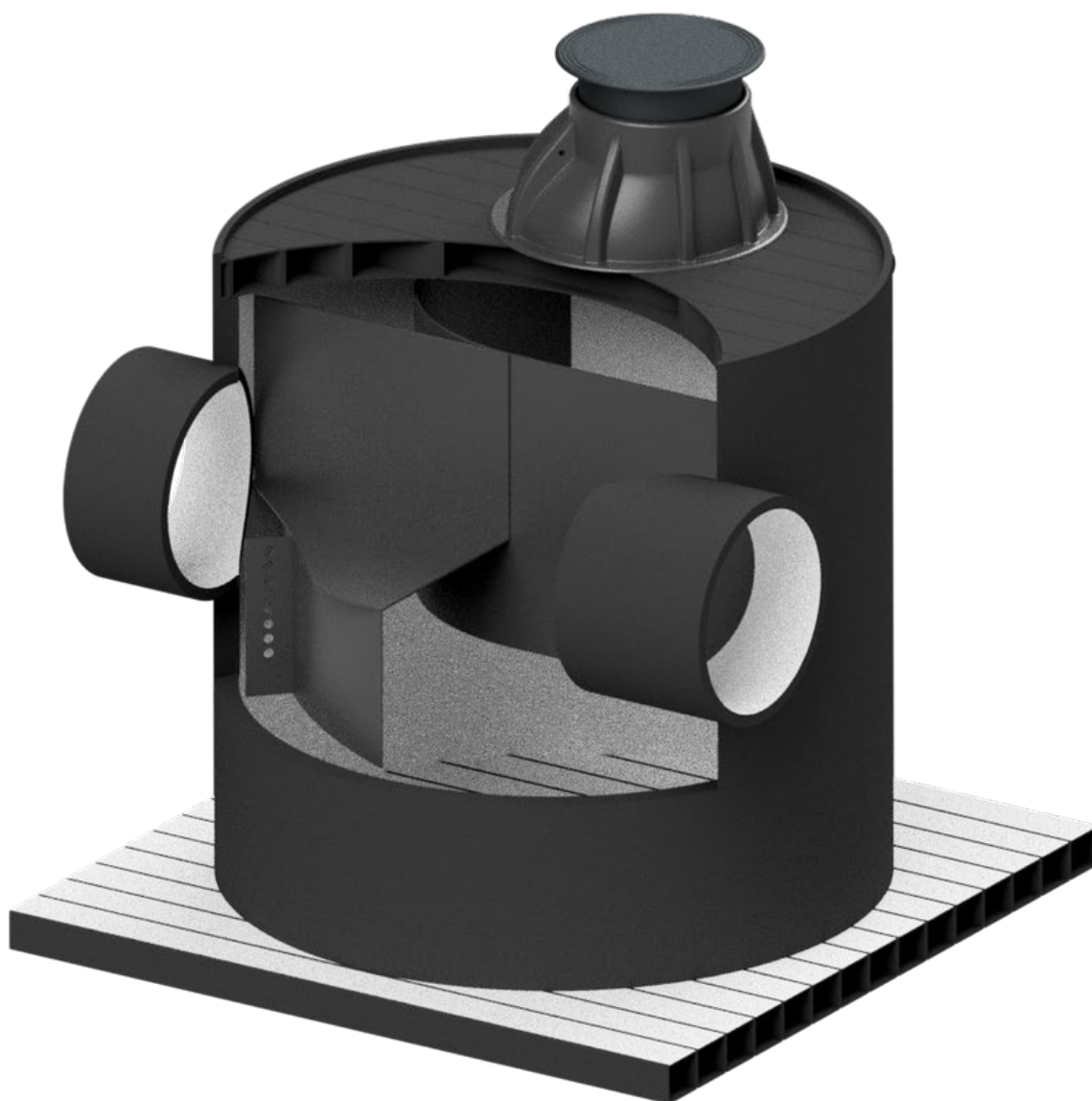




Installation manual

Vortex chamber



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1. Intended use

Flow Vortex chamber is used to separate debris and particles from Storm water. Can be used both as a standalone solution as well as for pre sedimentation in pond and wetland solutions.

2. Always follow local regulations

This document refers to local regulations for infrastructure, listed below:

- Finland: FI FIL77, Infra RYL
- Sweden: AMA Anläggning
- Denmark: DS430 and DS475
- Norway: NPG

3. Before installation

When receiving the chambers, handle carefully to avoid damage by lifting equipment.

Never unload by tipping. Check each chamber for transport damage or product flaws.

Prepare the storage site so that chambers are stored away from direct sunlight and heat, set on wooden racks. Do not stack the chambers.

4. Installation

1. Dig the chamber pit to correct depth (non-frost depth).

The chamber height is the distance between the outlet flow line and the ground level. If the chamber has a silt trap, add the trap depth to the total chamber height.

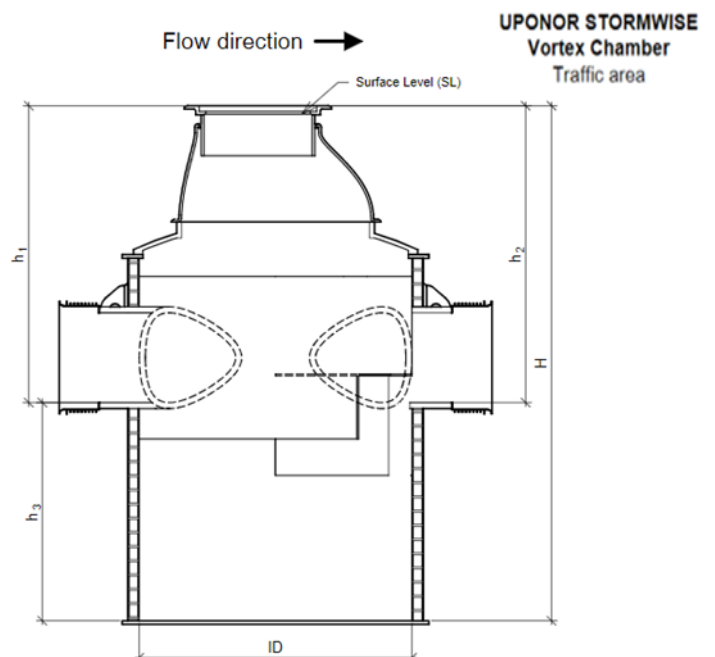
2. Add sand layer to correct chamber invert level. Compact the sand.

Make sure the base is level.

3. Install pipe connections. Use rubber sealings for tightness.

4. Fill the chamber pit with gravel. Compact in layers up to the top according to local regulations.

To prevent sinking, take special care to ensure proper compaction of the backfill material beneath the pipe-chamber joints.



5. After installation

Keep a lid on the chamber and make sure that no unauthorized persons can enter the chamber, by locking the lid.

6. Service

Normally no service is required.

7. Technical data

Drawings are provided with the chamber when ordering.

8. Maintenance

See Appendix for maintenance instructions.

9. References

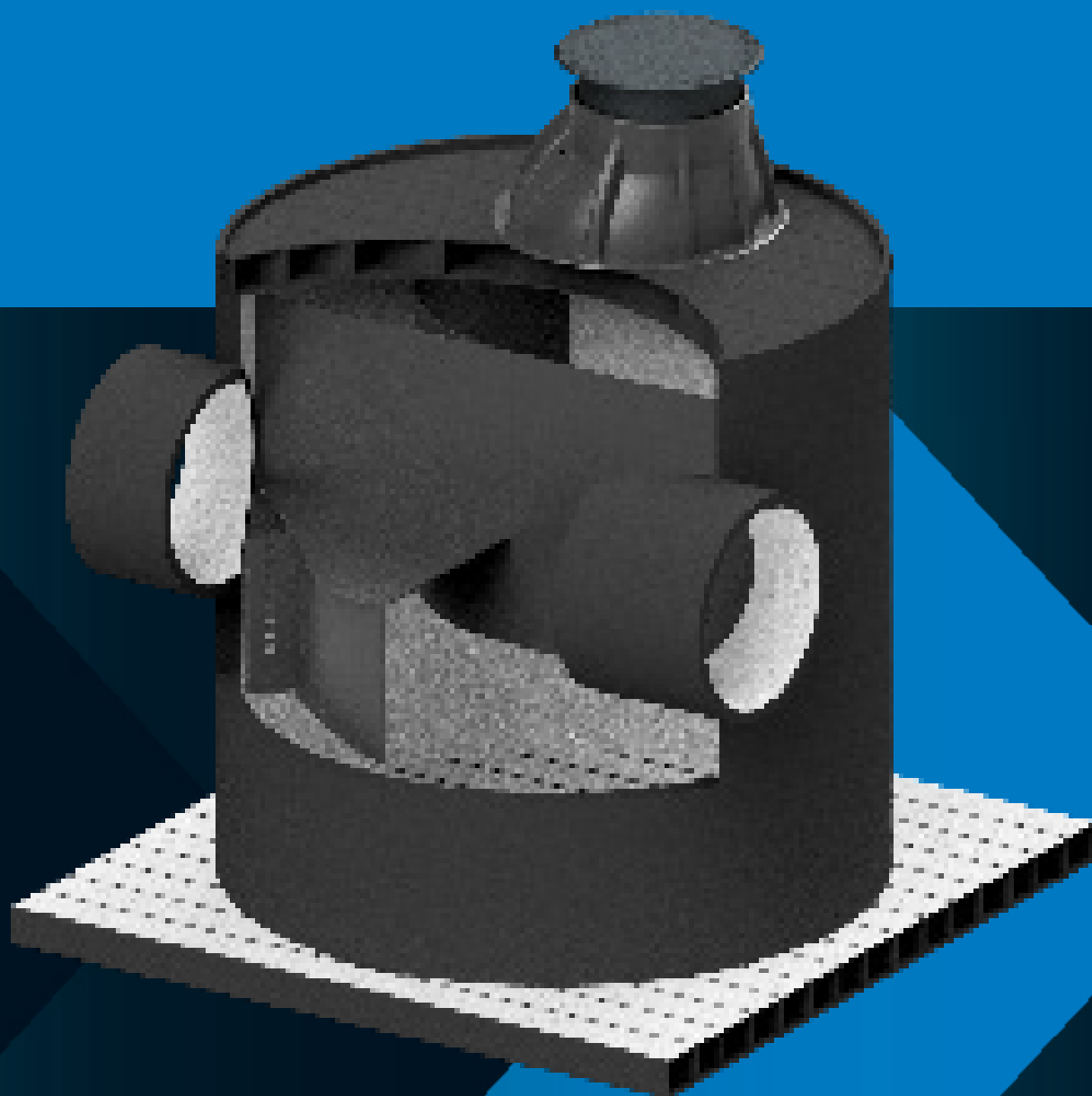
The following documentation is available at www.uponor.com for your reference.

- Uponor Infrastructure Solutions - Technical Handbook

11. Appendix

Uponor Vortex Maintenance Manual

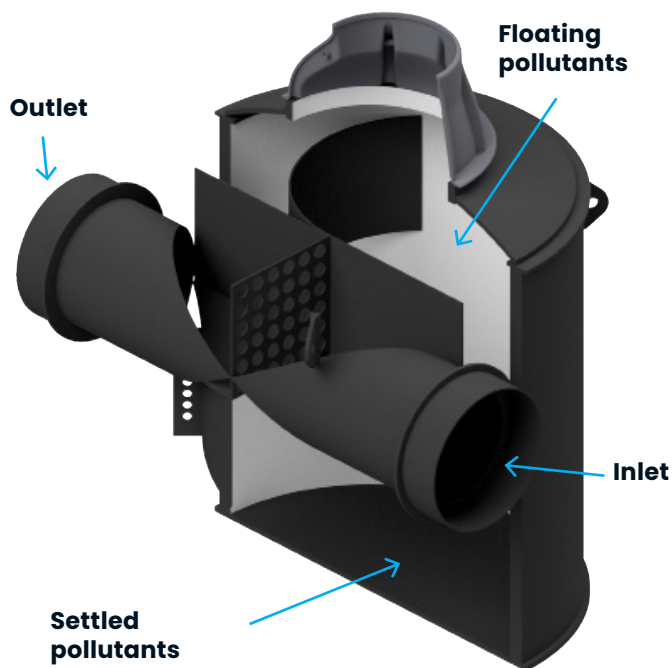
uponor



Maintenance Manual

Uponor Vortex effectively collects floating and settling solids from stormwater, including from large flows. Vortex is designed to protect water bodies and basins or green depressions. With the help of a chamber, volatile substances and floating pollutants can also be collected.

Chamber structure



Check

- › Visually inspect the device after heavy rains. Pay special attention to the amount of oil or floating pollutants, as well as sludge.

Maintenance

- › The annual sludge accumulation is usually used when dimensioning the system. The amount of sludge affects the operation of the system and must be removed regularly.
- › The need to remove floating pollutants (e.g., oil) is visually checked.
- › Sampling is carried out from a separate sampling well. In exceptional cases, a water sample can be taken from the water level of the outlet pipe.

Emptying

- › The sludge that has settled to the bottom is removed through the manhole by suction from the bottom.
- › Pollutants floating on the surface of the water are removed from the storage space, which is separated from the connections by a partition.
- › If there is an oil bilge in the chamber, it is replaced when only the top of the bilge is visible or according to the instructions of the bilge manufacturer.

Contact Information

Owner

Name

Address

Installation date

Commissioning date

Designer

Name

Address

Phone

Vendor

Name

Address

Phone

Installer

Name

Address

Phone

Supervising Authority

Name

Address

Phone

Building Authority

Name

Address

Phone

Environmental Authority

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