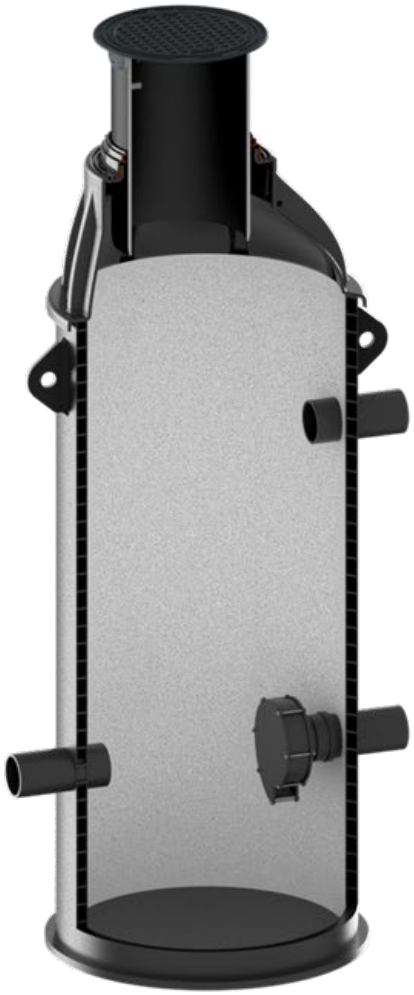
Installation Manual

uponor

Installation manual
Flow regulation chamber



Contents

1. Intended use

Flow regulation chamber is used to keep the outgoing flow from a retention tank or pond on an even (pre-defined) value, independent of the water level in the tank or pond. The maximum flow is defined at the maximum head. ($Head_{max}$)

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.**

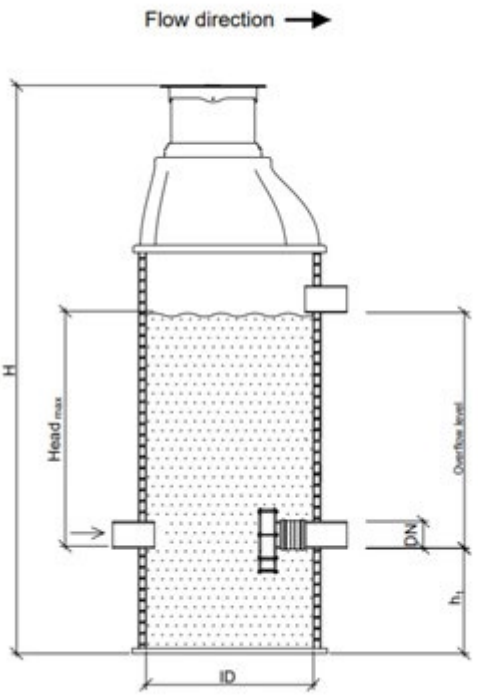
4. Installation

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. References

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

- Uponor Infrastructure Solutions - Technical Handbook

9. Operation journal

Uponor Flow regulation chamber

Date	Operator	Action

Moving
> Water

uponor

Uponor Corporation
Ilmalantori 4
00240 Helsinki
Finland
T +358 (0)20 129 211
F + 358 (0)20 129 2841
www.uponor.com