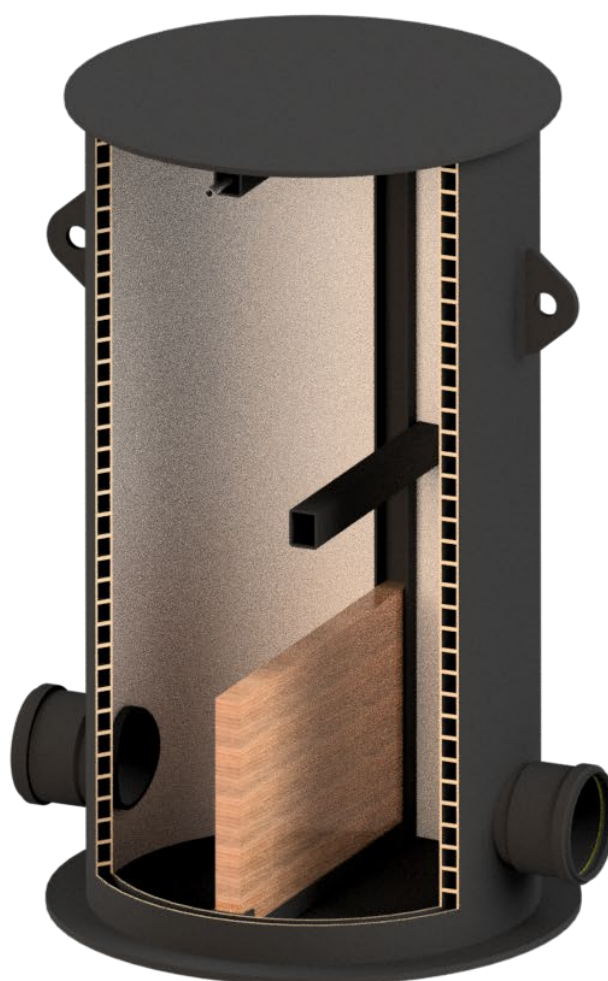




# Installation manual

## Level regulation chamber



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## 1. Intended use

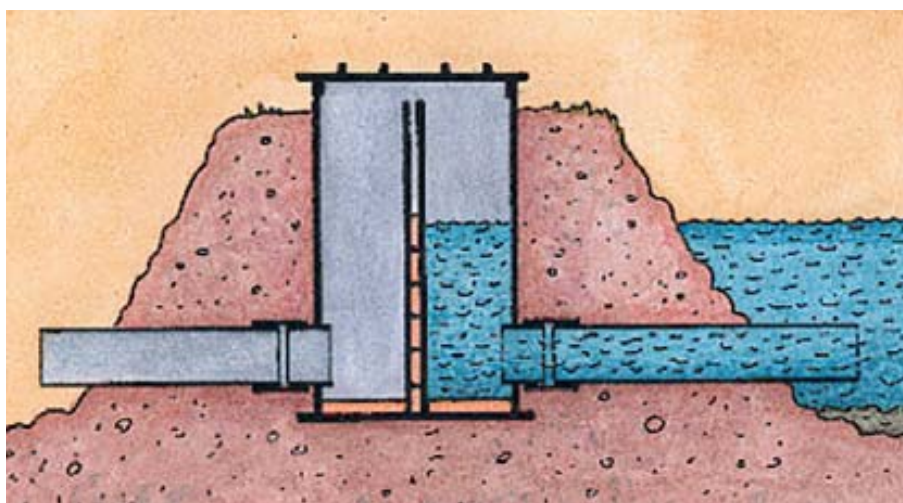
Level regulation chamber is used to keep the water level in ditches, ponds, and wetlands at a desired level. It can also be complemented with flow regulation properties.

Bottom inlet helps prevent problems with floating debris clogging the outlet. It also helps keep the oxygen level in the pond optimal by always removing the low oxygen water from the bottom of the pond. It will also allow to totally empty the pond at maintenance.

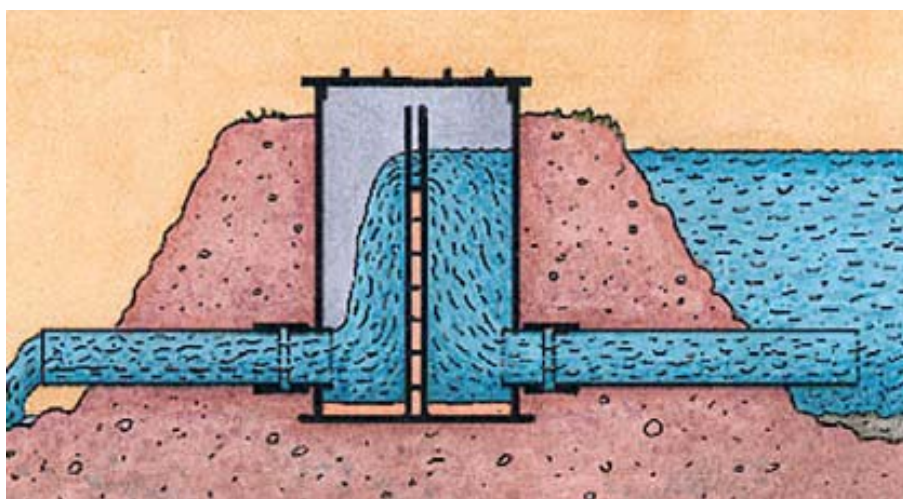
A. The level of the top plank will set the desired water level. To regulate the desired level, remove or add planks.

B. With higher flows into the pond the level will increase over the desired level for a shorter period until normal flow again is reached.

A)



B)



## 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).

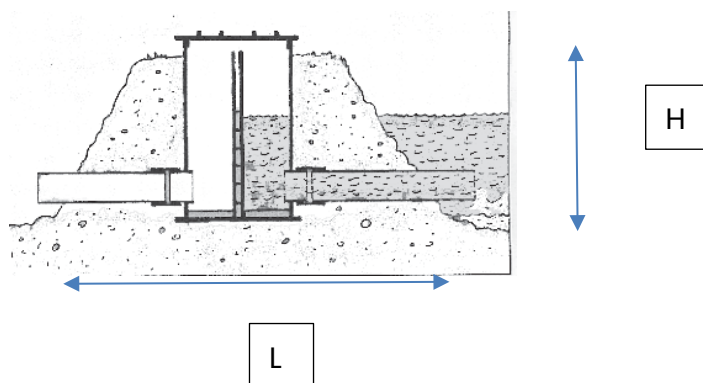
The chamber height is the distance between the outlet flow line and the ground level.

2. Add sand layer to correct chamber invert level. Compact the sand. Make sure the base is level.
3. Install pipe connections.
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.

#### Pond wall

Uponor recommends the following relationship between the height of chamber (H) and the base of the wall. (Lmin)

H	Lmin
1	5
2	10
3	15



#### Planks

Use 63 x 150mm pine or fur. No feather (or v-shape feather).

Use 20-30mm margin in length to allow some room for expansion.

To make maintenance and regulation easier put some nails in the planks which makes it easier to lift them in the future. To tighten the wooden plank wall, use some peat or other small fibers on the wet side of the wall.

## **Lid**

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

## **5. After installation**

Check that the wooden plank wall is tight enough for the intended use. Make corrections if needed.

## **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](http://www.uponor.com) for your reference.

- Uponor Infrastructure Solutions – Technical Handbook



# Moving > Water

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