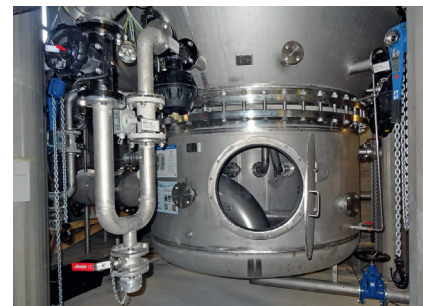


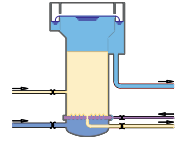
## Centralised softening of drinking water

**Process:** Softening by Rapid Decarbonization (RDC)  
**Problem:** Experimental reactor to redesign the softening plant (groundwater)  
**City/Country:** Langenau/Germany



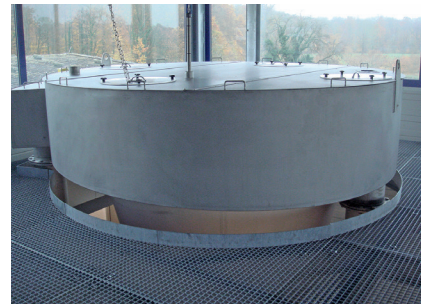
### **Project info:**

**Capacity:** Q = 700 m<sup>3</sup>/h  
**Number of reactors:** 1 Piece  
**Dosage:** Ca(OH)<sub>2</sub> < 1 %  
**Year of realisation:** 2014  
**Specialities:** Experimental reactor with lime water



## Centralised softening of drinking water

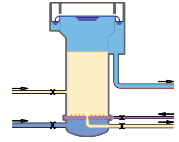
**Process:** Softening by Rapid Decarbonization (RDC)  
**Problem:** High water hardness  
**City/Country:** Rastatt/Germany



### **Project info:**

**Capacity:** Q = 375 m<sup>3</sup>/h  
**Number of reactors:** 2 Piece  
**Dosage:** Ca(OH)<sub>2</sub> >10 %  
**Year of realisation:** 2011  
**Specialities:** Lime slaker, preacidification,  
use of quartz sand





## Centralised softening of drinking water

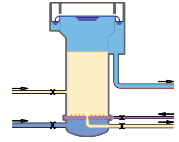
**Process:** Softening by Rapid Decarbonization (RDC)  
**Problem:** Increasing capacity of a softening plant  
**City/Country:** Konz/Germany



### Project info:

**Capacity:**  $Q = 156 \text{ m}^3/\text{h}$   
**Number of reactors:** 1 Piece  
**Dosage:**  $\text{Ca}(\text{OH})_2 > 10 \%$   
**Year of realisation:** 2011  
**Specialities:** Bypass with nanofiltration to increase the treatment capacity





## Centralised softening of drinking water

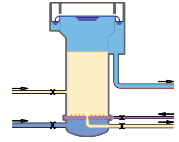
**Process:** Softening by Rapid Decarbonization (RDC)  
**Problem:** High water hardness  
**City/Country:** Achern/Germany



### **Project info:**

**Capacity:**  $Q = 330 \text{ m}^3/\text{h}$   
**Number of reactors:** 1 Piece  
**Dosage:** NaOH  
**Year of realisation:** 2008  
**Specialities:** Garnet sand as germination material





## Softening and PFC removal of drinking water

Process: Softening of groundwater with low pressure reverse osmosis (LPRO)  
 Problem: Hardness adjustment of mixed water and PFC removal  
 City/Country: Baden-Baden/Germany



### Project info:

**Permeate capacity:** Q = 600 m<sup>3</sup>/h  
**Number of lines:** 6 Stück (6 x 100 m<sup>3</sup>/h)  
**Number of pressure pipes:** Per line 19 pieces with 5 modules each  
**Year of realisation:** 2018  
**Specialities:** Process combination for softening and removal of PFC in groundwater

