

Instruction for use

ConnectionCenter

Field of application

SYR's ConnectionCenter 3200 is designed as a basis for refillable cartridges. It provides either softened or demineralized water or demineralized water with integrated pHvalue stabilization for heating systems (VDI Directive 2035 sheet 1) and prevents lime deposits.

Design

The ConnectionCenter includes a digital capacity control, an inlet and an outlet stop valve, two draw-off points for raw and softened water, a titration test and a wall bracket designed to mount the device.

After having untightened the screws, the upper part of the digital capacity control can be turned in 90° steps.

The ConnectionCenter works with already filled cartridges to be ordered just once (refillable). They are available in various sizes (4, 7, 14 and 30 liters) and various types: for water softening in heating systems (HWE), heating water demineralization (HVE) and pH-stabilization (HVE Plus).

As soon as the cartridges are empty, they can be refilled with the relevant granulates.

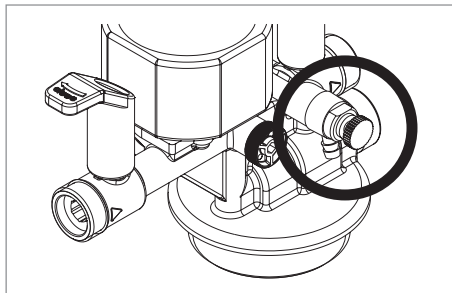
Installation

Mount the wall bracket (included in the delivery) on the wall.

The ConnectionCenter is delivered with 4 mounted pressure gauge plugs.

Remove the pressure gauge plugs located at the outlet in the direction of flow, fasten the ConnectionCenter on one side to the wall bracket and secure it by means of the screw connections.

Mount the drain valve on the other side.

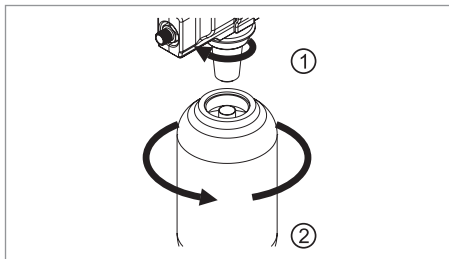


Afterwards, screw the cartridge under the ConnectionCenter (2).

Note: When using the 14 and 30 liters cartridges, the strainer in the ConnectionCenter is not required and can be removed! In this case, the cartridge is directly screwed in the ConnectionCenter.

Prior to installing this type of cartridges, remove the O-ring of the ConnectionCenter.

(see separate instruction for 14- and 30 cartridges)



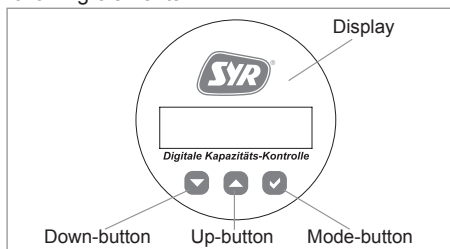
Note: According to EN 1717, the installation of a BA backflow preventer (i.e. BAFilling-Combi 6628) upstream of the ConnectionCenter in the direction of flow is compulsory!

Preparation for HWE / HVE / HVE Plus

Determine the raw water hardness by means of the corresponding device. Take a sample of raw water at any draw-off point upstream of the heating system to measure the hardness of the water.

Digital capacity control

The digital capacity control includes the following elements:



The display is deactivated when the device is delivered.

Press any button to activate the display (the software number and the remaining quantity of the standard setting of 1166 liters are displayed).



Press the button for at least 3 seconds to change the values.

How to set the raw water hardness

Enter the hardness of the untreated water:



Press the or the key to change the value. Then press the key once to save the change.

How to select a cartridge

Then, indicate in two steps the cartridge used:

First select the type of water treatment (HWE, HVE, HVE plus) using the - or - button and press the key once to save the change.



Select the cartridge size (4, 7, 14 or 30 liters) using the - or - button and press the key to save the change.



How to set the hardness degree of the softened water

Then, enter the desired hardness degree for the softened water.

Caution: Not applicable when using a HVE cartridge (demineralization)!



Press the or the key to change the value. Then press the key once to save the change.

How to set the conductance control

Caution: Not applicable when using a HWE cartridge (softening)!

Choose to deactivate (off) or (re-)activate the conductance control.



The activated conductance control allows value limits between 10 - 200 μS ..



Press the or the key to change the value. Press the key once to save the change..

How to replace the cartridge

Indicate whether the cartridge has been replaced or refilled.



Press the or key to confirm (Yes) or reject (No) the cartridge replacement.

In case of „Yes“, press the key for 3 seconds to confirm the cartridge replacement and save the change.

The following confirmation is displayed:

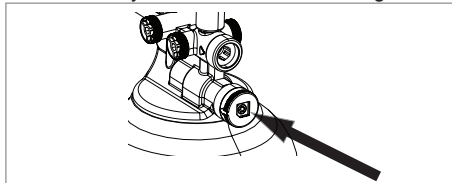


When all parameters are set, the residual quantity is recalculated and displayed (in liters).

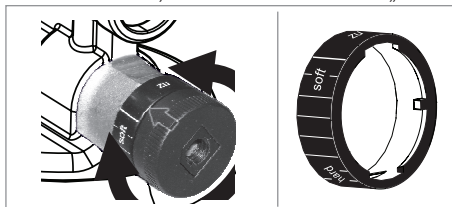
Note: Every time the cartridge is replaced, the parameters concerning the raw water hardness, the cartridge and the hardness degree of the softened water have to be set again.

Setting for HWE (softening)

Set the desired hardness for the blended water by means of the blending valve.



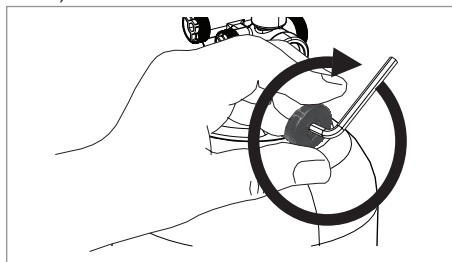
For softer water, turn in the direction of „Soft“, for harder water, turn in the direction of „Hard“.



Verify the hardness degree of the softened water by taking a sample at the drain valve. Adjust if necessary.

Setting for HVE (demineralization)

Deactivate the blending valve by turning the spindle clockwise until the stop by means of a hex key, while holding the external ring (with the arrow).



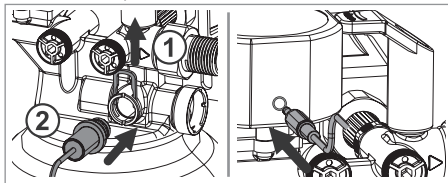
Determine the conductivity by means of the corresponding measuring device. Take some treated water from the drain valve (cf. page 2) to measure and check the conductivity of the water (<100µs).

Note: When the blending valve is closed, no raw water can be added!

The installation can be filled after a precise check of the test described above.

Installation conductance-sensor

Connect the conductance-sensor (Accessory: 3200.00.928) with the ConnectionCenter.



Displayed messages

When filling the installation, the display indicates the current volume flow.



If there is no flow rate, press the key once to display the volume recorded since the last cartridge replacement.



When the battery has to be replaced, the system displays the following message:



To change the battery, unscrew the cover and replace the battery (CR-2032). **Respect the correct polarity!**

When the capacity is very low (residual capacity 10 - 1 %), the system displays the message „Cartridge almost flat“.

When the cartridge is totally used, the system displays the message „Cartridge flat“.

In this case, replace the cartridge!

Technical specifications

max. service pressure: 6 bar
max. service temp.: 30°C
Fluid: potable water
Flow rate: 0,5 m³/h