

SOFTEC DSP CV

DUPLEX Softening Plants with CLACK

The hardness of water has become a challenge in industry and at home alike. Therefore, small softening plants have been finding their ways into private households. Our SOFTEC DSP CV series provides a solution for water softening in commercial and industrial plants with water volumes up to 20 m³/h. Equipped with CLACK's central control valves, our plants are easy to install, program, and operate.

Properties:

- dual softening plant
- continuously soft water
- easy installation and commissioning
- 9 freely programmable cycles
- automatic regeneration

Components:

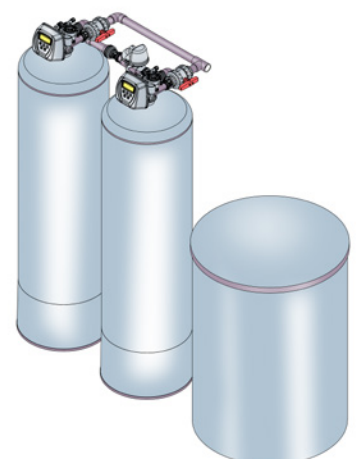
- GFRP filter tanks
- cationic resin
- central control valves
- three-way switching valve
- brine tank
- brine valve
- piping plus all fittings and measuring instruments necessary for the installation of the plant and monitoring the hydraulic parameters

Operating Conditions:

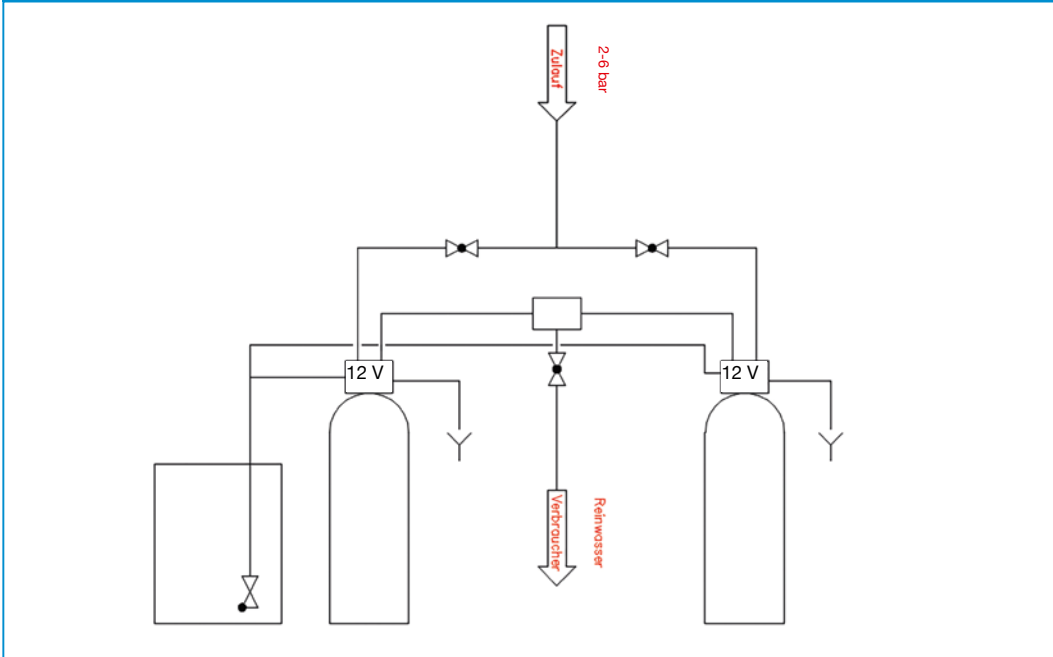
Hereinafter, the requirements for the inlet water:

Inlet pressure	2-6 bar
Temperature range	5-40° C
Free chlorine (Cl ₂)	< 0.1 mg/l
Iron (Fe)	< 0.1 mg/l
Manganese (Mn)	< 0.1 mg/l
Inlet water	free of oils, oxidants, colloids, or particles

It is recommended to install a filter, cartridge or self-cleaning, in front of the softening plant with a fineness of 100 µm. For regeneration, it is recommended to use technically pure salt in the form of a tablet, granulate, or liquid brine.



Process diagram



sample scheme

Technical Data

Type		DSP250 CI	DSP300 CI	DSP400 CI	DSP500 CI	DSP650 CI	DSP750 CI	
Capacity*	m ³ /h max.	9	11.5	18	18	20	20	
Operating mode		Direct Current Regeneration						
Differential pressure*	bar	1.0						
Electrical connection		230V, 50Hz, 12V						
Resin volume per tank	Amberlite HPR 1 100 Na (l)	250	300	400	500	650	750	
Resin capacity*	m ³ x °dH	1 000	1 200	1 600	2 000	2 600	3 000	
Tank size	inch	21 x 62	24 x 72	30 x 72		36 x 72		
Brine tank	Volume (l)	500		750	1 000		1 500	
Connection		DN40			DN50			
Dimensions*	Length (mm)	3 000	3 000	3 000	3 000	3 500	4 000	
	Width (mm)	1 100	1 100	1 100	1 100	1 500	1 500	
	Height (mm)	2 400	2 400	2 400	2 400	2 400	2 400	

*all specifications are approximate