

EUROWATER

A GROUP OF CO-OPERATING EUROPEAN WATER TREATMENT SPECIALISTS

AUTOMATIC SOFTENING

AUTOMATIC SOFTENING PLANTS SERIES STFA



Type STFA 17 Duplex

- **ADVANTAGEOUS FOR MAJOR AND IRREGULAR WATER CONSUMPTIONS**
- **REGENERATES ACCORDING TO WATER CONSUMPTION WITH OPTIMAL ECONOMY FOR CHEMICAL**
- **THE MODULAR SYSTEM ALLOWS FOR INDIVIDUALLY ADAPTED CONSTRUCTIONS**
- **EASY INSTALLATION**
- **FULLY ELECTRONIC 12 VOLT CONTROL PANEL PREPARED FOR INDIVIDUAL PROGRAMMING**
- **REGENERATION UNIT COMPLETE WITH PIPE SYSTEM TO BE SITUATED ACCORDING TO REQUEST**

SOFTENING

By softening, the water content of calcium and magnesium salts - the water hardness builders - are changed for sodium salts which do not provide the inconveniences characterizing hard water. When the resin has been saturated with calcium and magnesium salts, regeneration takes place with brine, which drives out the accumulated calcium and magnesium salts to drain.

PLANT CONSTRUCTION

The plants are normally 2-tank plants for continuous operation with one tank operating, while the other regenerates or is in stand-by position. Single plants are, however, available for water supplies which stand interruption during regeneration (about 2 hours).

THE PRINCIPLE OF METER CONTROL

A contact water meter on the outlet of the plant records the consumption of softened water and gives pulses to the control panel proportional to consumption. After consumption of water corresponding to one filter tank capacity, the control panel initiates regeneration of the tank due for regeneration. Thus the plant regenerates in accordance with water consumption.

THE MODULAR SYSTEM

The plants are constructed as a space-saving and flexible modular system with eight basic modules - a series of plants with varying flow rates, peak loads and regeneration capacities.

CONTINUOUS WATER SUPPLY

During regeneration, one filter tank is taken out of service simultaneously with the other supplying softened water. After regeneration, the filter tank automatically goes into stand-by position.

SOFT WATER TEST

The soft water can be checked with a test set. A drop of indicator is added to a water sample, and if the sample turns green, the water is soft, if the sample turns red, the water is hard.

REGENERATION UNIT

The unit is made of PVC pipes and equipped with automatic diaphragm valves. The regeneration unit is a flexible unit to be installed as desired with a complete control attached, such as 12 V electronic control, flow meters, regulating valves and stop valves.

CORROSION-RESISTANT FILTER TANKS

The filter tanks are made of steel and are surface treated with high density polyethylene making them absolutely pinholefree. The tanks consequently have the strength of steel and the corrosion resistance of plastics.



Regeneration unit

ELECTRONIC CONTROL PANEL

The CSC2-control panel comprises all the control functions of the plant. These functions may be programmed individually by means of switches on the front panel. The panel is supplied with 12 V from a transformer.

PROGRAMMING SECTION/REMOTE SIGNALS

The programming section controls the regeneration cycles and determines the salt consumption. Light-emitting diodes show the latest regenerated filter tank. Remote signals for regeneration and water consumption alarm are available.

COUNTER SECTION

The counter section receives pulses from the contact water meter, and light-emitting diodes show the plant position in its operation cycle.

BRINE-MAKER

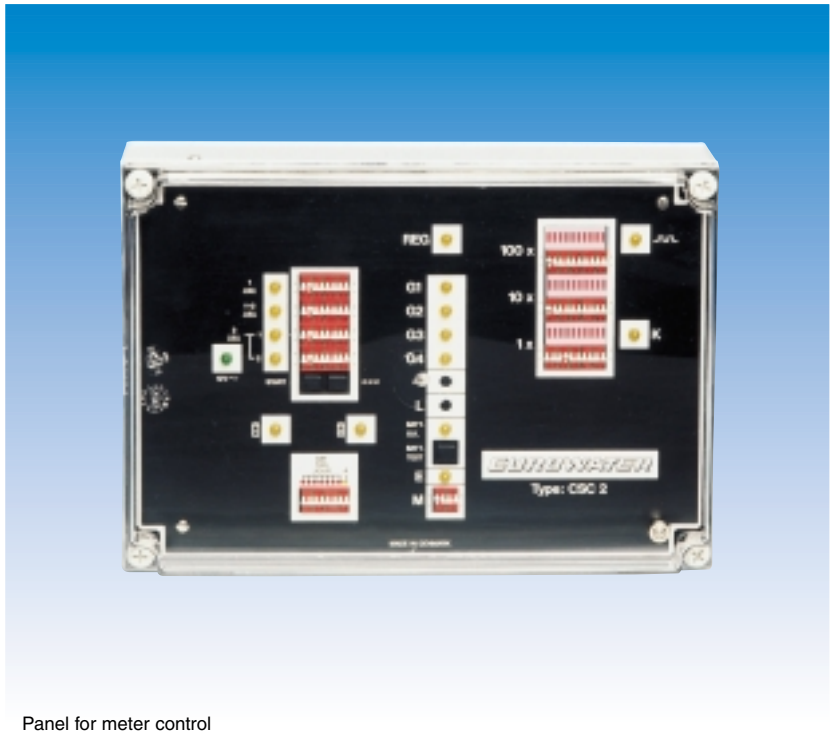
The plants within the series STFA are so large that they demand an automatic system in order to produce large amounts of brine. These brine-makers can be delivered as standard plants or they can be designed to meet customer needs.

STANDARD BRINE-MAKER

The standard brine-maker consists of a storage tank, filter and pump. The storage tank is supplied for 2000 or 3000 kg salt. The brine-maker works fully automatically and demands no tending between the salt fillings. A circulation system stabilizes the brine concentration and makes it possible to drain the storage tank completely prior to new salt fillings, thus allowing for optimal utilization of the tank.

CUSTOMIZED SYSTEM

If the customer wants a brine-maker specially adapted to access conditions and space requirements, we can supply you with know-how and equipment. We deliver the necessary technical equipment.



Panel for meter control

FLOW RATES AND CAPACITIES

MODULE	MAXIMUM FLOW m³/h	PRESSURE LOSS* bar	BASIC CAPACITY m³ at 1°dH	SALT CONSUMPTION kg NaCl**
STFA 12	30	0.8	2400	80
STFA 14	40	0.9	3150	105
STFA 17	50	1.2	3750	125
STFA 20	60	1.3	4500	150
STFA 25	80	1.0	6000	200
STFA 30	90	1.2	6900	230
STFA 35	100	1.3	8000	265
STFA 40	100	1.2	9000	300

* Pressure loss (8°C) where filter filling Dowex HCR-S is applied.

** Corresponds to 33.3 g NaCl pr. m³ at 1°dH. Control voltage: 230 volt, 50 Hz, transformed to 12 volt. Water temperature: Max. 35 °C.

DIMENSIONS

MODULE	1-TANK-UNIT			2-TANK-UNIT		
	Height mm	Width mm	Depth mm	Height mm	Width mm	Depth mm
STFA 12	2660	2400	1800	2660	2800	1800
STFA 14	2830	2500	1900	2830	3000	1900
STFA 17	2850	2600	2000	2850	3200	2000
STFA 20	2870	2700	2100	2870	3400	2100
STFA 25	2910	2900	2350	2910	3800	2350
STFA 30	2935	3000	2450	2935	4000	2450
STFA 35	2955	3100	2550	2955	4200	2550
STFA 40	2975	3200	2650	2975	4400	2650

Dimension sketches for exact installation dimensions are available on request.



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