

UniSoft® 9000 - Volume Controlled Softeners



Soft Water for Industrial Purposes

Volume controlled softening filters in the Guldager UniSoft 9000 series are duplex plants, delivering treated water continuously 24 hours a day.

The advantage of volume control is that the filter spends its entire capacity before regeneration starts automatically. This means a reduction of the consumption of water and salt of 25% compared to a traditional time controlled plant.

The UniSoft 9000 series is delivered in 6 sizes with a capacity from 2000 - 15000 litres per hour. Our engineers are pleased to make individual calculations if special needs or consume patterns are to be taken into account. Guldager also delivers and projects time- and volume controlled simplex plants in all sizes. Capacity varying from 0,5 m³ to 200 m³ per regeneration at 20°dH, and a flow from 50 l/min to 500 l/min.

The UniSoft 9000 series is made of non-corrosive materials. In the regeneration process, soft water is used. This means a longer lifetime of parts exposed to abrasion.

The plants are approved in Denmark (VA approval) and in Europe (CE approval).

Functioning

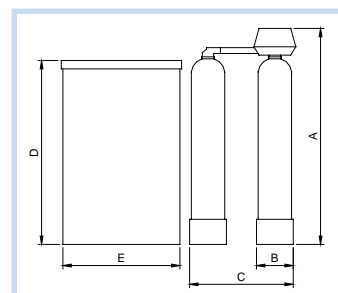
Volume controlled softening filters in the UniSoft 9000 series are used in systems, where a continuous delivery of soft water is required. The built-in water meter registers the consumption and changes automatically to filter II. Subsequently, filter I is regenerated with soft water from filter II, which is now in service. Once the regeneration of filter I has been completed, it will be in stand by position, and will be re-connected at the next filter change.

Application

The plant can be used in connection with technical water installations, where the need for soft water is big.

- Washing machines for clothing
- Bus/Car washing machines
- Production of boiler water and steam
- Humidifiers
- Dishwashers
- Cooling towers
- Reverse osmosis plants
- Other processes where lime causes problems

Guldager's Service System has been developed during more than 50 years. It includes all manufactures of softening-, decarbonising-, and reverse osmosis plants.



UniSoft® Type	9020	9035	9050	9075	9100	9150
Capacity at 0,178 mmol/l (1 °dH), m3/h	40	70	100	150	200	300
Capacity at 1,78 mmol/l (10 °dH), m3/h	4	7	10	15	20	30
Capacity at 3,56 mmol/l (20 °dH), m3/h	2	3,5	5	7,5	10	15
Water pressure, min., bar	1,5	1,5	1,5	1,5	1,5	1,5
Water pressure, max., bar	8	8	8	8	8	8
Temperature, max. °C	35	35	35	35	35	35
Electrical connection, Volt/Hz	230/50	230/50	230/50	230/50	230/50	230/50
Pipe connection, IN/OUT, RG"	1"	1"	1½"	1½"	2"	2"
Salt consumption, kg/reg.	3	5	16	23	34	47
Measure A, mm	1185	1289	1845	1815	2185	2345
Measure B, mm	210	257	369	552	610	770
Measure C, mm	460	554	778	1144	1260	1580
Measure D, mm	630	630	1000	1000	2 x 1060	2 x 1130
Measure E, mm	467	467	530	530	2 x 710	2 x 910