

Data Sheet

Softening Plants

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Softening plants, exemplary design for raw water 5...30 °C, primary pressure 2...6 bar, total alkaline earths 1.8 mmol/l or total hardness 10 °dH. Soft water total alkaline earths < 0.01 mmol/l or < 0.05 °dH.

Duplex plant for continuous operation. Filter vessels made of GRP, with resin filling strongly acidic, pipelines and valves made of PVC. Up to 20 m³/h with control heads, starting with 20 m³/h with individually actuated diaphragm valves.

Accessories: Contact flow meter for quantity-dependant regeneration, micro processor control device, brine dissolving tank. Alternately with residual hardness meter for quality-dependant regeneration.

flow capacity	1,0 m³/h	2,4 m³/h	4,4 m³/h	5,6 m³/h	7,6 m³/h	8,8 m³/h	10,0 m³/h	13,0 m³/h	15,0 m³/h	20,0 m³/h	20,0 m³/h	28,0 m³/h	35,0 m³/h	50,0 m³/h	80,0 m³/h	100,0 m³/h
capacity total alkaline earths	14 mol	34 mol	79 mol	100 mol	136 mol	157 mol	214 mol	250 mol	300 mol	500 mol	357 mol	500 mol	714 mol	929 mol	1429 mol	1786 mol
≈ capacity total hardness	80 °dH m³	192 °dH m³	440 °dH m³	560 °dH m³	760 °dH m³	880 °dH m³	1200 °dH m³	1400 °dH m³	1680 °dH m³	2800 °dH m³	2000 °dH m³	2800 °dH m³	4000 °dH m³	5200 °dH m³	8000 °dH m³	10000 °dH m³
service life at full load *	8 h	8 h	10 h	10 h	10 h	10 h	12 h	11 h	11 h	14 h	10 h	10 h	11 h	10 h	10 h	10 h
regeneration effluent	0,2 m³	0,6 m³	1,3 m³	1,7 m³	2,3 m³	2,6 m³	3,6 m³	4,2 m³	5,0 m³	8,4 m³	6,0 m³	8,4 m³	12,0 m³	15,6 m³	24,0 m³	30,0 m³
salt required for each reg.	4 kg	11 kg	24 kg	31 kg	42 kg	48 kg	66 kg	77 kg	92 kg	154 kg	110 kg	154 kg	220 kg	286 kg	440 kg	550 kg
Filter Vessel																
diameter	180 mm	250 mm	369 mm	406 mm	552 mm	552 mm	618 mm	600 mm	760 mm	910 mm	768 mm	924 mm	1074 mm	1225 mm	1429 mm	1623 mm
vessel height	1120 mm	1370 mm	1645 mm	1658 mm	1615 mm	1615 mm	1860 mm	1790 mm	1850 mm	1850 mm	1960 mm	2005 mm	1994 mm	2061 mm	2766 mm	2873 mm
total height	1420 mm	1670 mm	1945 mm	1958 mm	1915 mm	1915 mm	2160 mm	2090 mm	2150 mm	2150 mm	2315 mm	2360 mm	2394 mm	2461 mm	2766 mm	2873 mm
total volume	23 l	54 l	137 l	167 l	301 l	301 l	435 l	395 l	655 l	939 l	710 l	1020 l	1360 l	1840 l	3602 l	4760 l
resin volume	20 l	48 l	110 l	140 l	190 l	220 l	300 l	350 l	420 l	700 l	500 l	700 l	1000 l	1300 l	2000 l	2500 l
Connections																
raw/soft water	DN 20	DN 20	DN 40	DN 40	DN 40	DN 40	DN 50	DN 50	DN 50	DN 65	DN 65	DN 80	DN 80	DN 100	DN 125	DN 150
control head	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	n/a	n/a	n/a	n/a	n/a	n/a
effluent	DN 15	DN 15	DN 15	DN 20	DN 20	DN 20	DN 20	DN 25	DN 25	DN 25	DN 25	DN 25	DN 25	DN 25	DN 25	DN 25
Brine Dissolving Tank																
total volume	60 l	100 l	200 l	460 l	460 l	540 l	540 l	750 l	1000 l	1850 l	1120 l	1660 l	1830 l	3000 l	4250 l	5440 l
salt content	25 kg	90 kg	160 kg	303 kg	266 kg	471 kg	412 kg	596 kg	819 kg	1531 kg	725 kg	1075 kg	1275 kg	2400 kg	3250 kg	4225 kg
diameter	310 mm	458 mm	550 mm	750 mm	750 mm	900 mm	900 mm	1060 mm	1160 mm	1210 mm	1040 mm	1200 mm	1200 mm	1600 mm	1900 mm	2150 mm
total height	810 mm	760 mm	1040 mm	935 mm	935 mm	1010 mm	1010 mm	980 mm	1080 mm	1800 mm	1230 mm	1325 mm	1620 mm	1500 mm	1500 mm	1500 mm
content sufficient for reg.	6	9	7	10	6	10	6	8	9	10	7	7	6	8	7	8
Dimensions and Weight, Duplex Plant																
total length	1540 mm	1758 mm	1969 mm	2206 mm	2472 mm	2622 mm	2688 mm	3030 mm	3290 mm	3490 mm	3076 mm	3548 mm	3848 mm	4550 mm	5258 mm	5896 mm
total width	310 mm	458 mm	550 mm	750 mm	750 mm	900 mm	900 mm	1060 mm	1160 mm	1210 mm	1040 mm	1200 mm	1200 mm	1600 mm	1900 mm	2150 mm
total height	1420 mm	1670 mm	1945 mm	1958 mm	1915 mm	1915 mm	2160 mm	2090 mm	2150 mm	2150 mm	2315 mm	2360 mm	2394 mm	2461 mm	2766 mm	2873 mm
operation weight, approx.	165 kg	382 kg	800 kg	1323 kg	1486 kg	1891 kg	2152 kg	2746 kg	3499 kg	6181 kg	3845 kg	5535 kg	7105 kg	10600 kg	15500 kg	19665 kg

* Listed for raw water with total alkaline earths = 1.8 mmol/l or total hardness = 10 °dH. General: service life = resin capacity / (flow capacity x water hardness)