

## SINGLE SOFTENING PLANT

Type **MONEX MSP - CL**

The MONEX Softening Plants operates the ion exchange process for softening and they are designed to work automatically. Standardwise they will be regenerated according to the exhausted capacity. A time or volume control valve ensures the success by preadjustment of the cycle time or requested soft water quantity.

The plants consists of one corrosion resistant reinforced glass fibre tank, needed filling of softening resin, one central control valve for operating the soft cycles like service and regeneration, brine tank with accessories.

### Plant selection :

Type	Flow* m <sup>3</sup> /h	Capacity m <sup>3</sup> x °dH	Resin Ltr.	Fleck-Valve Type	Salt demand kg/reg
<b>MSP – 25CL</b>	1 / 1,4	100	25	4600 Brass	4
<b>MSP – 50CL</b>	2 / 2,8	200	50	4600 Brass	8
<b>MSP – 75CL</b>	3 / 4,2	300	75	2750 Brass	12
<b>MSP – 100CL</b>	4 / 5,6	400	100	2750 Brass	16

\*at dP 1,0 / 1,8 bar ; 1°dH =  
0,357 mg-eq/l

\* 160 gr/l resin

The Standard plants are equipped with 1" connecting aggregates which allows a max flow up to 5,6 m<sup>3</sup>/h. Larger units could be offered upon request.

Feeding raw water pressure should be 2 bars at least, also during regeneration cycles when maximum water flow is needed. Maximum operating temperature should not exceed 45 °C.

A certain brine quality is needed for regeneration of these automatically working plants, therefor either raffinated pure salt tablets or graveled salt (grain sizes of 8 – 12 mm) should be used.

Feed water should be free of iron and manganese ( low concentrations will be removed by the process ) and should be free of particular matters. The installation of a fine filter prior softening with filter fineness of about 50 µm is recommended.

All above mentioned plant components fits together sensefully but they are not assembled or mounted. All parts starting from raw water inlet of the control valve up to the water outlet of the plants belonging to the scope of supply.

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### Plant dimensions :

Type	Installation			Tank		Brinetank			Connection	
	Length	Width	Height	Diam.	Height	Volume	Diam.	Height	In	Out
<b>MSP – 25 CL</b>	1100	600	1300	213	1113	100	470	800	1"	1"
<b>MSP – 50CL</b>	1400	800	1700	259	1382	200	640	795	1"	1"
<b>MSP – 7 CL5</b>	1500	800	2100	333	1392	200	640	795	1"	1"
<b>MSP –100CL</b>	1600	800	2100	356	1633	200	640	795	1"	1"

### Scope of supply :

1 piece	PARK-GRP Pressure Tank
1 piece	CLACK - Central Control Valve
1 piece	DOWEX - strong acid cation resin
1 piece	Brinetank with brinevalve, brinewell,grid and cover
1 piece	Nozzles top and bottom
1 piece	Brine suction & Drain hose

The requested softwater demand has to be given in m<sup>3</sup> for preadjustment the controller

Options :      By-pass device  
                   Blending device and by-pass  
                   Assembling

Technical changes possible.

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