

DUPLEX SOFTENING PLANT

Type **DUPLEX DSP - FL**

The DUPLEX 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 central control valve ensures the success by preadjustment of the soft water quantity.

The plants consists of two corrosion resistant reinforced glass fiber 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 ³ /h	Capacity m ³ x °dH	Resin Per Tank Ltr.	Fleck-Valve / Type	Salt demand Reg. * kg
DSP - 25	1 / 1,4	100	25	9000	4
DSP - 50	2 / 2,8	200	50	9000	8
DSP - 75	3 / 4,2	300	75	9000	12
DSP - 100	4 / 5,6	400	100	9000	16
DSP - 150	6 / 7,2	600	150	9500	24
DSP - 200	6,8 / 9,2	800	200	9500	32
DSP - 250	9 / 11,5	1000	250	2850	36

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

* if 160 g/l
resin

The Standard plants are equipped with 3/4"- or 1 ½ " connecting aggregates which allows a max flow up to 11,5 m³/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* ca.			Tanks (2 pcs)		Brine tank			Connect. BSB	
	length	depth	height	diameter	Height	volume	diameter	height	IN	OUT
DSP - 25	1400	600	1200	213	1113	100	470	800	3/4 "	3/4 "
DSP - 50	1700	800	1600	259	1382	200	560	980	3/4 "	3/4 "
DSP - 75	1850	800	2000	333	1392	200	560	980	1 "	1 "
DSP - 100	2000	800	2000	356	1633	200	560	980	1 "	1 "
DSP - 150	2500	1000	2050	508	1669	300	560	1415	1 1/2 "	1 1/2 "
DSP - 200	2800	1000	1950	554	1610	400	750	1160	1 1/2 "	1 1/2 "
DSP - 250	3000	1100	2050	625	1656	500	900	900	1 1/2 "	1 1/2 "

* dimensions in mm

Scope of supply :

- 2 pcs Park-GRP Pressure Tank
- 1 piece Fleck- Central Control Valve
- 2 fillings Dowex- strong acid cation resin
- 1 piece Brinetank with accessories and cover
- 4 pcs inner top and bottom nozzles
- 1 piece brine suction hose

subject to alteration

The requested soft water demand has to be given in m³ for preadjustment the controller

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

