

Avtomatične mehčalne naprave v dvojni koloni z izmeničnim volumetričnim delovanjem. Omogočajo neprekinjeno proizvodnjo tretirane vode. Elektronski programator upravlja avtomatično regeneracijo iztrošene kolone in sočasni prehod na delovanje druge kolone. Naprava je kompletno opremljena z medsebojnimi cevni povezavami, števcem z dajalnikom impulzov in membranskimi ventili. Programator je napajan z nizko napetostjo (12 V), zahvaljujoč vgrajenemu transformatorju. Baterija znotraj programatorja omogoča ohranitev podatkov tudi v primeru padca napetosti. Programirati je mogoče tudi trajanje različnih regeneracijskih faz, tako da se uskladi delovanje mehčalne naprave specifičnim potrebam in da se optimizira porabo vode med regeneracijo. Eventuelni odvzemi vzorcev vode med regeneracijo, so omogočeni preko by-passa v krmilnem ventilu. Vsi uporabljeni materiali so atoksični in primerni za uporabo v prehrabeni industriji. Rezervoar za ionsko maso je iz poliestra, ojačanega s steklenimi vlakni, visokokapacitivne ionske mase pa so primerne za uporabo v prehrabeni industriji. Ohišje - rezervoar za sol je iz plastičnega materiala, odpornega na udarce. Tako kakor vse mehčalne naprave NOBEL, so tudi ti modeli opremljeni s priključkom za montažo avtomatičnega dezinfektorja CL90 ali CL180.

Polavtomatsko delovanje

V kateremkoli trenutku, neodvisno od prenestavljenega avtomatizma je možno preprosto sprožiti regeneracijo delujoče kolone s pritiskom na gumb; istočasno se aktivira drugo kolono za tretiranje vode. Postopek regeneracije se sam zaključi in se vzpostavi prvotno stanje delovanja mehčalne naprave.

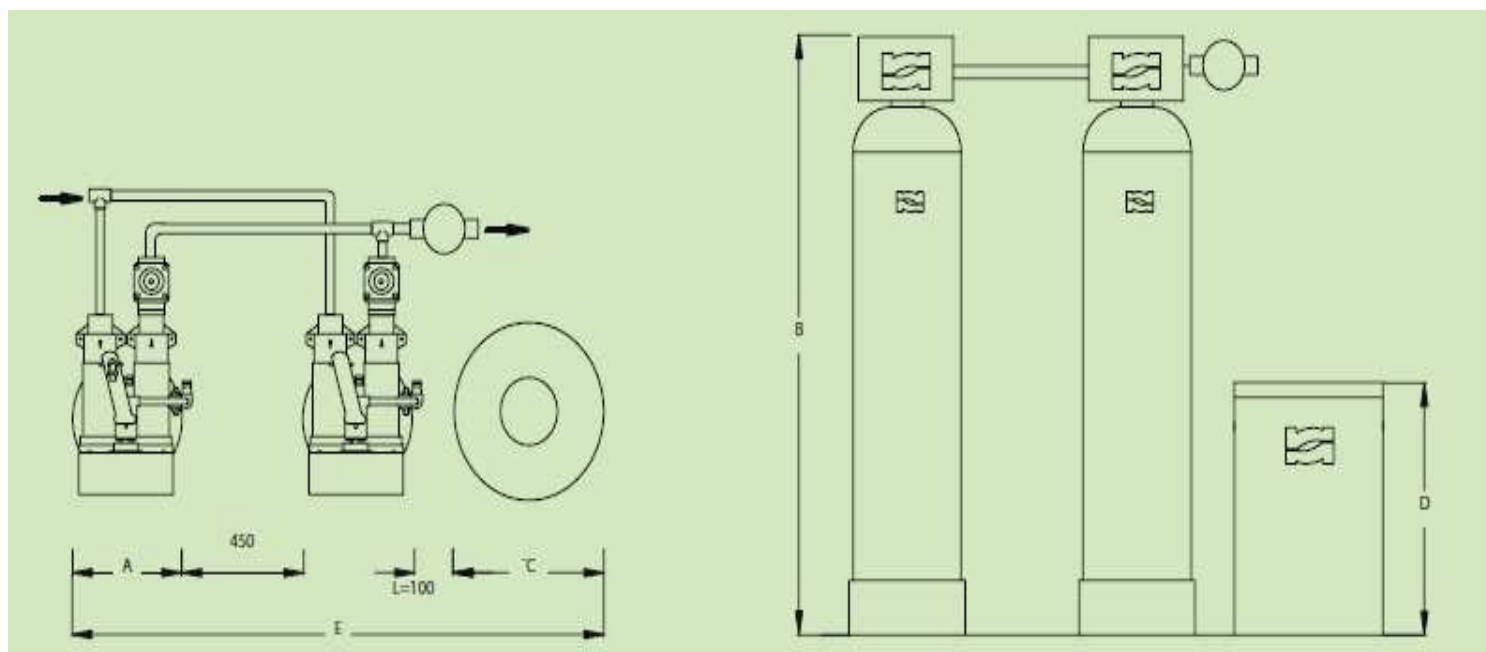
Rezervoar

Standardno je za regeneracijo mehčalne naprave v dveh kolonah predviden en rezervoar iz poliestra. Glede na želje kupca je možno nabaviti dva različna rezervoarja za vsako kolono posebej.



DIMENZIJE (mm) - DIMENSIONS (mm)

		A	B	C	D	V	Kapaciteta rezervoarja / tank capacity	Teža ob dobavi / Shipping weight
		mm	mm	mm	mm	mm	l	kg
AS 90/METER	Duplex	250	1100	600	800	1550	150	70
AS 150/METER	Duplex	250	1400	600	800	1550	150	90
AS 210/METER	Duplex	300	1400	600	800	1650	150	115
AS 300/METER	Duplex	300	1600	600	1100	1650	200	150
AS 450/METER	Duplex	350	1600	600	1100	1750	200	200
AS 600/METER	Duplex	350	1900	600	1100	1750	200	250
AS 800/METER	Duplex	400	1900	600	1100	1850	200	310
AS 1050/METER	Duplex	460	1900	800	1100	2450	520	425
AS 1055/METER	Duplex	460	1900	800	1100	2450	520	435
AS 1345/METER	Duplex	540	1900	800	1100	2450	520	545
AS 1350/METER	Duplex	540	1900	800	1100	2450	520	555
AS 1355/METER	Duplex	540	2000	800	1100	2450	520	560
AS 1950/METER	Duplex	610	2200	800	1100	2650	520	760
AS 1955/METER	Duplex	610	2300	800	1100	2650	520	775
AS 3000/METER	Duplex	760	2400	1000	1100	3050	850	1140
AS 4300/METER	Duplex	920	2500	1100	1100	3350	1000	1590



TEHNIČNE KARAKTERISTIKE / TECHNICAL DATA

		max pretok / max flow rate mm	cikel / cycle mm	smole / resins mm	sol na cikel / salt for cycle kg	priključki / connections
AS 90/METER	Duplex	1,2	90 +90	15 + 15	2,25	1"
AS 150/METER	Duplex	2,4	150 +150	25 + 25	3,75	1"
AS 210/METER	Duplex	2,8	210 + 210	35 + 35	5,25	1"
AS 300/METER	Duplex	3,2	300 + 300	50 + 50	7,50	1"
AS 450/METER	Duplex	4,1	450 + 450	75 + 75	11,25	1"
AS 600/METER	Duplex	4,5	600 + 600	100 + 100	15,00	1"
AS 800/METER	Duplex	5,0	800 + 800	130 + 130	19,50	1 ¼"
AS 1050/METER	Duplex	5,0	1050 + 1050	175 + 175	26,20	1 ¼"
AS 1055/METER	Duplex	8,0	1050 + 1050	175 + 175	26,20	1 ½"
AS 1345/METER	Duplex	5,0	1350 + 1350	225 + 225	33,70	1 ¼"
AS 1350/METER	Duplex	9,0	1350 + 1350	225 + 225	33,70	1 ½"
AS 1355/METER	Duplex	11,5	1350 + 1350	225 + 225	33,70	1 ½"
AS 1950/METER	Duplex	9,0	1950 + 1950	325 + 325	48,70	1 ½"
AS 1955/METER	Duplex	16,0	1950 + 1950	325 + 325	48,70	2"
AS 3000/METER	Duplex	18,0	3000 + 3000	500 + 500	75,00	2"
AS 4300/METER	Duplex	20,0	4300 + 4300	725 + 725	108,00	2"

Delovni tlak: 2,0 ÷ 6,0 bar (200 ÷ 600 kPa)

Working pressure

Delovna temperatura: 5 ÷ 40°C (41 ÷ 104°F)

Working temperature

Električno napajanje: 220 V 50 Hz 10w

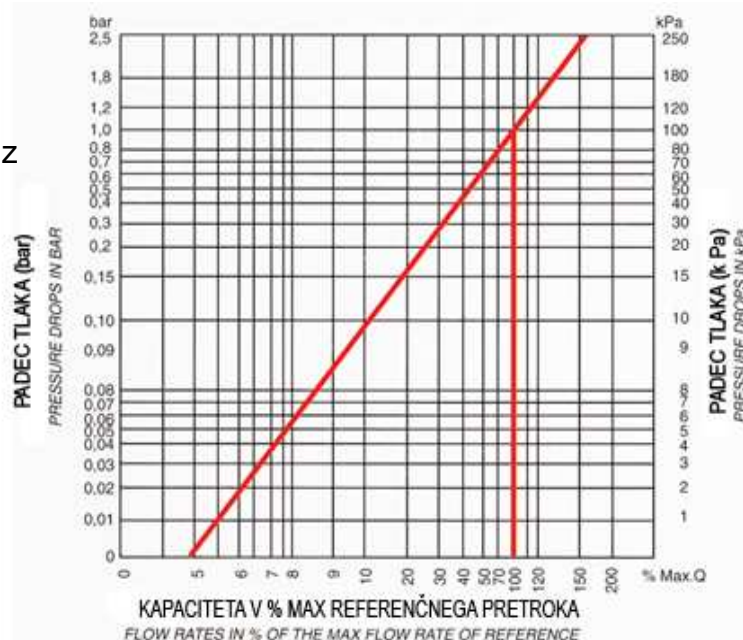
Power Supply

Delovna napetost - s transformatorjem: 12 V 50 Hz

Working tension with built-in transformer

Graf na desni prikazuje padce tlaka v bar in kPa glede na različne pretoke, ki so prikazani kot % max pretoka vode.

The diagram shows the pressure drop, in bar and kPa, at the different flow rates, which are indicated as % of the max flow rate of reference.



Automatic softeners dual system via volume control: they allow the continuous feeding of treated water no-stop. The columns are regenerated alternately, hence one column is always on service, while the other one is on regeneration or stand-by. The regeneration is programmed according to the supplied volume of treated water. The working of the system is controlled by an electronic computerized programmer, handling the starting of regeneration of the exhausted column and the exchange of working between the columns, according to the pulses received by a water meter. All materials are non-toxic and suitable for drinking water: fiberglass vessel (fiberglass reinforced polyester resin), food grade ion exchange resins for softening with high exchange capacity, automatic control valves top-mounted made in ABS, electronic computerized programmer for automatic control of the working. The multiport diaphragm valves, to shut-off the outlet line of each column during regeneration and stand-by, are hydropneumatically controlled and made in cast iron, the brine tank is made in shock-resistant polyethylene complete with separation plate, protection wells, float valves. The unit is supplied complete with interconnection piping between the columns and pulse water meter with dry dial and visualization. The brine injection is made by mean of injectors, built in the control valves. The time of the several phases of the regeneration can be adjusted, in order to fit the working of the unit to the special application and to avoid useless waste of water and salt for regeneration. The electronic programmer, with visualization of the column on service and the volume of water supplied, is equipped with buffer battery to save up the stored data even in case of power failure. Free voltage contacts for remote report of running regeneration and column on service (A/B) are also available inside the programmer, upon request. The electric part works at low tension (12V~) supplied by a transformer built-in the electrical plug. AS/V Duplex softeners, as well as all NOBEL softeners, can be equipped with CL90 or CL180 device, according to the models, for self-sterilizing regeneration.

Semi-automatic working

Auxiliary "push-button" regeneration start out of the preset automatic programme; in the same time, the other column will automatically starts the service. The manually started regeneration will be automatically completed and the system will continue the service according to the scheduled programme.

Brine tank

A free voltage contact is available, upon request, for remote report of running regeneration; it can be used, for example, to control the working of a pump or other equipments (optional) Standard arrangement includes only one brine tank, to handle the regeneration of both columns. On demand, the unit can be supplied with 2 brine tanks (one tank for each column).

