

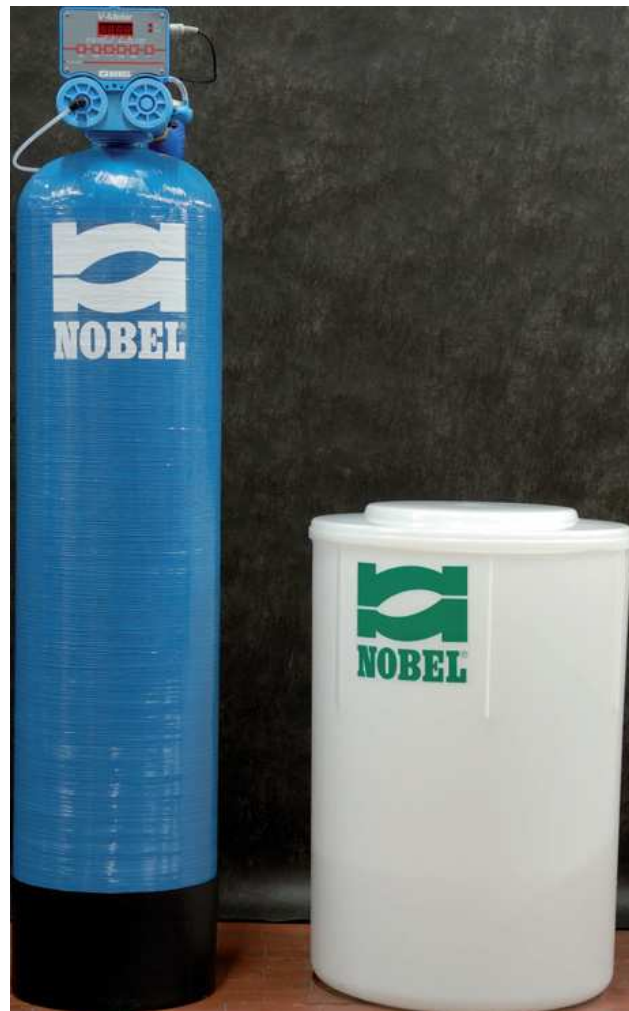
Avtomatične mehčalne naprave z elektronskim volumetričnim upravljanjem regeneracije. Primerne so za tretman vode, tako za civilne kakor industrijske potrebe, kjer je potrebno vedno zagotoviti tretirano vodo. Avtomatika, z mikroprocesorskim programatorjem deluje v skladu z oddanimi impulzi pretočnega števca. Ob aktiviranju faze regeneracije, se takoj zapre membranski ventil na izstopni strani, ki je hidropnevmatsko upravljan. S tem se izognemo nevarnosti, da bi v sistem vdrla netretirana voda. Programator je napajen z nizko napetostjo (12 V), zahvaljujoč vgrajenemu transformatorju. Regeneracijo je možno sprožiti na enega izmed sledečih načinov:

- **volumen:** sprožitev ob dosegu pretečenega določenega volumna vode.
- **čas:** sprožitev na izbrani dan in uro (24 ur, 14 dni, max 1 regeneracija na dan)
- **čas – volumen:** sprožitev ob dosegu enega izmed dveh predhodno nastavljenih parametrov.

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. Mehčalne naprave so opremljene tudi z zunanjim števcem impulzov. Eventuelni odvzemi vzorcev vode med regeneracijo, so omogočeni preko by-passa v krmilnem ventilu. 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, visokopacitivne ionske mase pa so primerne za uporabo v prehrabeni industriji. Ohišje - rezervoar za sol je iz plastičnega materiala, odpornega na udarce. Naprave so opremljene z integrirano avtomatiko s 5 faznim ventilom (protismerno pranje - sesanje slanice in počasno pranje, izplaknevanje, dotakanje rezervoarja za sol in delovanje), s prikazovalnikom faz delovanja, kompletno s programatorjem za avtomatičnim upravljanjem regeneracije. Tako kakor vse mehčalne naprave NOBEL, so tudi ti modeli opremljeni s priključkom za montažo avtomatičnega dezinfektorja CL90 ali CL180.

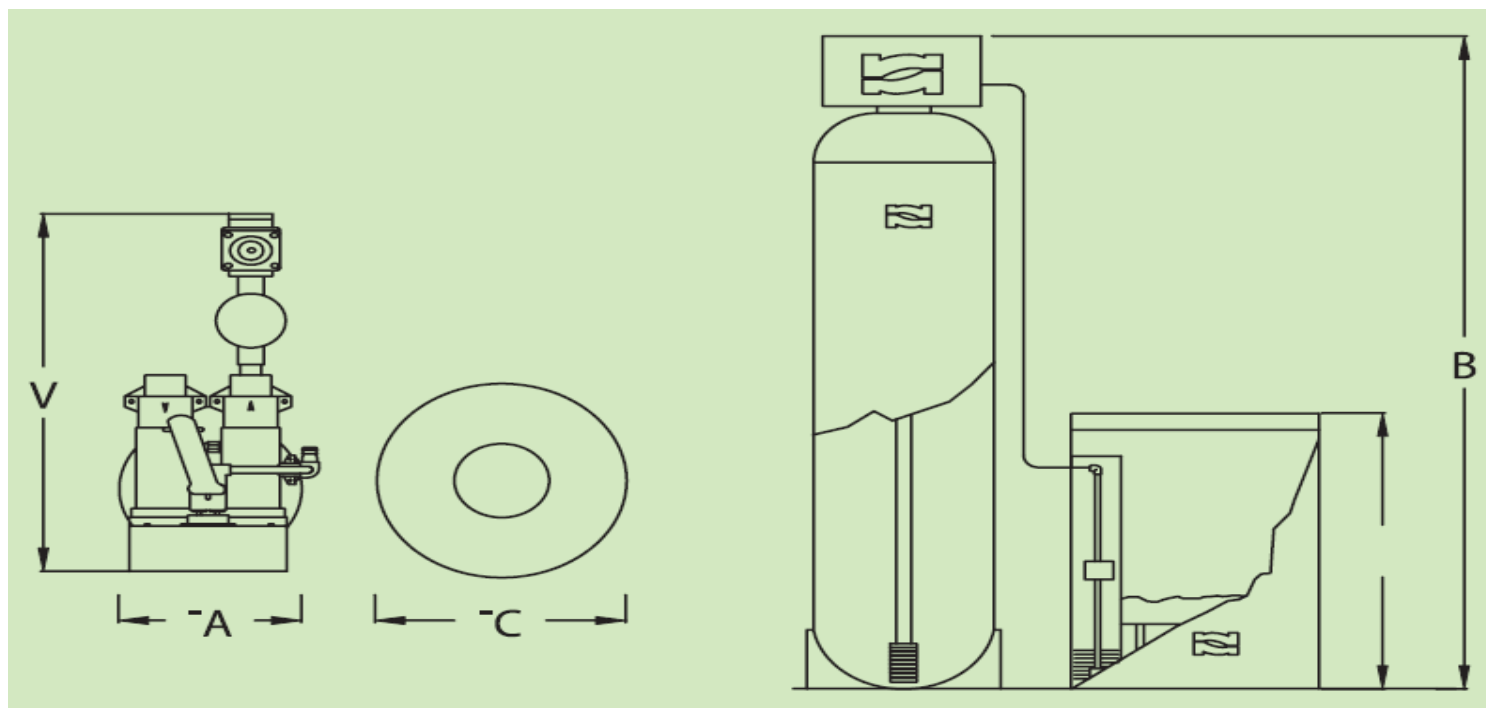
Polavtomatsko delovanje (za vse modele)

V kateremkoli trenutku, neodvisno od prenastavljenega avtomatizma je možno preprosto sprožiti regeneracijo s pritiskom na gumb. Postopek regeneracije se sam zaključi in se vzpostavi prvotno stanje delovanja mehčalne naprave.



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	250	1100	500	700	610	100	40
AS 150/METER	250	1400	500	700	610	100	50
AS 210/METER	300	1400	500	700	610	100	60
AS 300/METER	300	1600	600	800	610	150	80
AS 450/METER	350	1600	600	800	610	150	105
AS 600/METER	350	1900	600	800	650	150	130
AS 800/METER	400	1900	600	1100	700	200	160
AS 1050/METER	460	1900	700	1100	790	300	220
AS 1055/METER	460	1900	700	1100	810	300	225
AS 1345/METER	540	1900	700	1100	790	300	285
AS 1350/METER	540	1900	700	1100	850	300	290
AS 1355/METER	540	2000	700	1100	1070	300	290
AS 1950/METER	610	2200	700	1100	900	300	390
AS 1955/METER	610	2300	700	1100	1080	300	395
AS 3000/METER	760	2400	800	1100	1130	520	580
AS 4300/METER	920	2500	1000	1100	2090	850	810



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	1,2	90	15	2,25	1"
AS 150/METER	2,4	150	25	3,75	1"
AS 210/METER	2,8	210	35	5,25	1"
AS 300/METER	3,2	300	50	7,50	1"
AS 450/METER	4,1	450	75	11,25	1"
AS 600/METER	4,5	600	100	15,00	1"
AS 800/METER	5,0	800	130	19,50	1 ¼"
AS 1050/METER	5,0	1050	175	26,20	1 ¼"
AS 1055/METER	8,0	1050	175	26,20	1 ½"
AS 1345/METER	5,0	1350	225	33,70	1 ¼"
AS 1350/METER	9,0	1350	225	33,70	1 ½"
AS 1355/METER	11,5	1350	225	33,70	1 ½"
AS 1950/METER	9,0	1950	325	48,70	1 ½"
AS 1955/METER	16,0	1950	325	48,70	2"
AS 3000/METER	18,0	3000	500	75,00	2"
AS 4300/METER	20,0	4300	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 50/60 Hz 10w

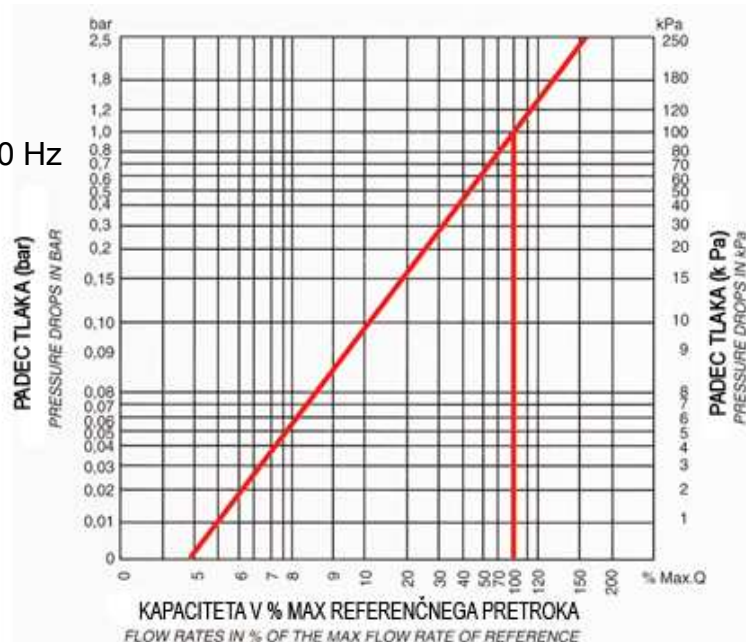
Power Supply

Delovna napetost - s transformatorjem: 12 V 50/60 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 by volume control of treated water These units are designed for all applications requiring always treated water, where the supplying of untreated water, even temporary, is not allowed. (i.e. feeding of thermal systems, industrial processes, etc). Indeed, all AS/Meter softeners are complete with membrane valve, hydro-pneumatically controlled, to shut-off the outlet line during regeneration cycle. The volume only control (factory set) allows to feature even several regenerations per day: It is only required that the time between two following regenerations is long enough to allow the preparation of brine (average 7-8 hours, longer at low temperature). For example, for the filling of closed thermal systems, a Nobel AS/Meter unit, even with low capacity, can complete the filling of the system with treated water in more subsequent phases (service-regenerations), fully automatically. The working of the unit is controlled by an electronic computerized programmer, low tension working (12 V), by a built-in transformer. Although the factory set is by volume only, the regeneration can be also adjusted according to the following modes, always with the visualization of supplied volume of treated water.

- **volume mode:** regeneration starts after that the pre-set volume of water has been supplied.
- **time mode:** regeneration starts at a preset day and time of day, adjustable in a range of 14 days and 24 hours per day (max 1 regeneration per day).
- **time/volume mode:** regeneration starts after that the pre-set volume of water has been supplied, but only at a pre-set time of day (factory set).

The programmer is complete with a buffer battery to save up the memory even in the case of power failure. The time of the several phases of the regeneration can also 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 unit is supplied complete with external pulse sender water meter with dry dial and totalizer. During the regeneration cycle, a safety internal by-pass allows to supply (untreated) water. Constructions materials are all non toxic and suitable for drinking water. Vessel made in fiberglass reinforced polyester resin, food grade ion exchange resins with high exchange capacity, brine tank made in shock-resistant moulded polyethylene c/w float valves, protection pipe, separation plate, automatic control valve 5-cycles working (backwash, brine suction and slow rinse, rinse, brine tank refill, service) made in no-toxic ABS. AS/V units, as well as all Nobel softeners can be completed with device CL90 or CL180 for automatic sterilization of resins during regeneration.

Semi-automatic working

Auxiliary push-button regeneration start, out of any automatic schedule. The regeneration will be automatically completed and the system will turn back on service.

Remote report signal

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)

