

Avtomatične mehčalne naprave z elektronskim časovno - volumetričnim upravljanjem regeneracije. Primerni so za tretman vode, tako za civilne kakor industrijske potrebe. Pretočna sposobnost naprav je od 5 do 20 m<sup>3</sup>/h s ciklično kapaciteto od 1050 do 4300 m<sup>3</sup> x °Fr. Integralna avtomatika z mikroprocesorskim programatorjem in turbinskim pretočnim števcem omogoča optimizacijo porabe soli in vode za regeneracijo, ter prepreči, da bi se proces regeneracija opravil v ne zaželenem času. 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, visokokapacitivne 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, izplaknjevanje, 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.

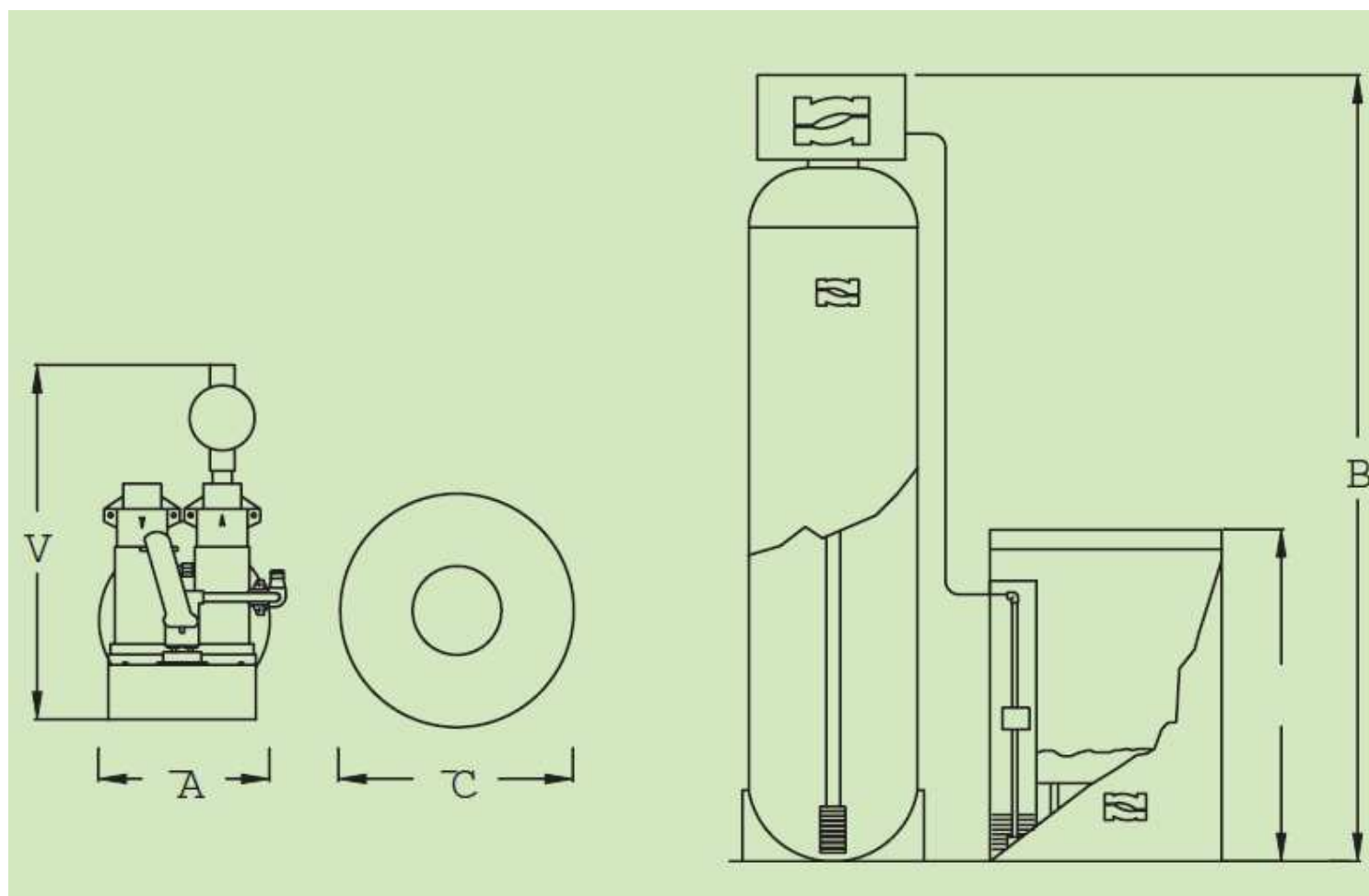
### Polavtomatsko delovanje (za vse modele)

V kateremkoli trenutku, neodvisno od prenestavljenega 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)**

|           | <b>A</b>  | <b>B</b>  | <b>C</b>  | <b>D</b>  | <b>V</b>  | <b>Kapaciteta<br/>rezervoarja /<br/>tank capacity</b> | <b>Teža ob dobavi /<br/>Shipping weight</b> |
|-----------|-----------|-----------|-----------|-----------|-----------|-------------------------------------------------------|---------------------------------------------|
|           | <b>mm</b> | <b>mm</b> | <b>mm</b> | <b>mm</b> | <b>mm</b> | <b>l</b>                                              | <b>kg</b>                                   |
| AS 1050 V | 460       | 1900      | 700       | 1100      | 620       | 300                                                   | 210                                         |
| AS 1055 V | 460       | 1900      | 700       | 1100      | 630       | 300                                                   | 210                                         |
| AS 1345 V | 540       | 1900      | 700       | 1100      | 620       | 300                                                   | 275                                         |
| AS 1350 V | 540       | 1900      | 700       | 1100      | 670       | 300                                                   | 275                                         |
| AS 1355 V | 540       | 2000      | 700       | 1100      | 710       | 300                                                   | 275                                         |
| AS 1950 V | 610       | 2200      | 700       | 1100      | 720       | 300                                                   | 375                                         |
| AS 1955 V | 610       | 2300      | 700       | 1100      | 860       | 300                                                   | 375                                         |
| AS 3000 V | 760       | 2400      | 800       | 1100      | 910       | 520                                                   | 560                                         |
| AS 4300 V | 920       | 2500      | 1000      | 1100      | 960       | 850                                                   | 790                                         |



## TEHNIČNE KARAKTERISTIKE / TECHNICAL DATA

|           | max pretok /<br>max flow rate<br>mm | cikel / cycle<br>mm | smole /<br>resins<br>mm | sol na cikel / salt<br>for cycle<br>kg | priključki / connections |
|-----------|-------------------------------------|---------------------|-------------------------|----------------------------------------|--------------------------|
| AS 1050 V | 5,0                                 | 1050                | 175                     | 26,20                                  | 1 ¼"                     |
| AS 1055 V | 8,0                                 | 1050                | 175                     | 26,20                                  | 1 ½"                     |
| AS 1345 V | 5,0                                 | 1350                | 225                     | 33,70                                  | 1 ¼"                     |
| AS 1350 V | 9,0                                 | 1350                | 225                     | 33,70                                  | 1 ½"                     |
| AS 1355 V | 11,5                                | 1350                | 225                     | 33,70                                  | 1 ½"                     |
| AS 1950 V | 9,0                                 | 1950                | 325                     | 48,70                                  | 1 ½"                     |
| AS 1955 V | 16,0                                | 1950                | 325                     | 48,70                                  | 2"                       |
| AS 3000 V | 18,0                                | 3000                | 500                     | 75,00                                  | 2"                       |
| AS 4300 V | 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 Hz 10w

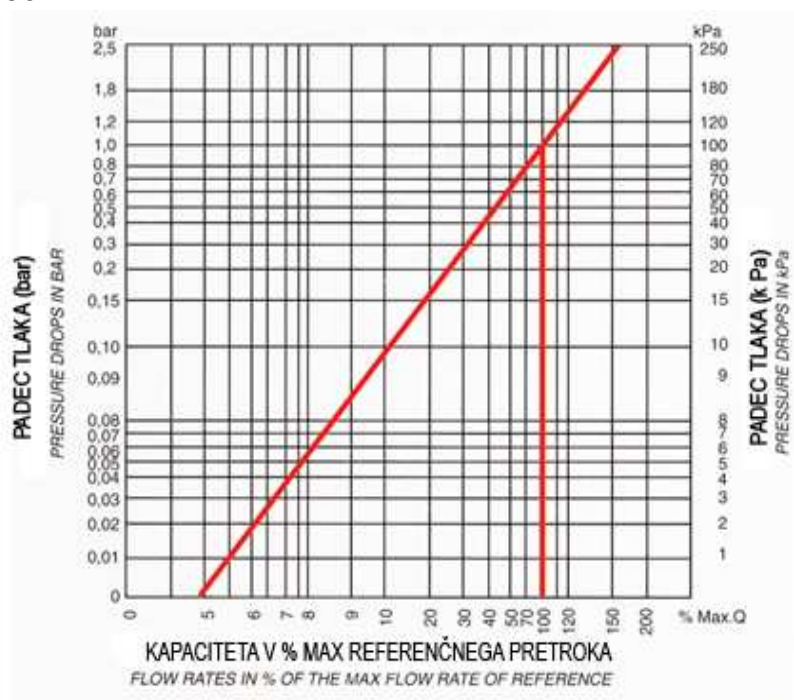
*Power Supply*

**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 for middle flow rates and cycle (5.0 - 20.0 m<sup>3</sup>/h and 1050 - 4300 m<sup>3</sup> x°Fr), suitable for industrial and residential applications. 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 time/volume mode, the regeneration can be 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. Construction 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)

