



SOFTENING SYSTEMS

SOFTENING SYSTEMS

Softening systems are used to soften the water by holding the hardness ions in the water. Soft water ensures the protection of pipings and especially boilers. Softening takes place with the “ion exchange” method. Insoluble cationic resin holds calcium and magnesium ions, which cause hardness, in the water and, instead, gives sodium ion to water. This resin is abrasion-resistant and long-lasting; has high exchange capacity, low salt consumption, equal granule sizes, low pressure loss, and has been approved by WHO for food-grade (in accordance with the food regulations).

Tandem softening units consist of 2 resin columns. The systems operate automatically with a controlled flow depending on the purified water flow and after softening the predetermined water quantity, they automatically start to the regeneration process. Resin tanks work sequentially and when one tank is in regeneration process, the other tank starts softening. The tank, whose regeneration is completed waits for the other tank's service period expiration and restarts operating after this period. In this way, continuous water softening production is ensured for 24 hours.

SOFTENING SYSTEMS



1. Softening System Inlet
2. Softening System Outlet
3. Automatic Control Valve
4. Drainage Line
5. Resin Mineral
6. Gravel Layer
7. Salt tank
8. Granulated Salt

FRP Tank Single and Tandem Softening Systems

TECHNICALS SPECIFICATIONS

Tanks Dimensions: 8"x35" ... 63"x86"

Tank Material: FRP

Filtration Rate: < 40 m/h

Inner Distribution Structure: Diffuser Distribution Structure

Piping: PVC

Control*: Automatic Control Valve / Pneumatic / Electric Act. Valve

Operating Pressure: 2-6 Bar

(* Can be applied with surface piping after 30 "x72" models)



Tandem Softening System

SOFTENING SYSTEMS

Carbon Steel Tank Single and Tandem Softening Systems



Single Softening System

TECHNICALS SPECIFICATIONS

Diameter:	Ø1000 mm ... Ø3200 mm
Cylindrical Height:	2000 mm
Type:	Vertical / Horizontal
Tank Material:	Epoxy Coated Carbon Steel
Filtration Rate:	<40 m/h
Inner Distribution Structure:	Nozzle
Piping:	PVC / Galvanized
Control:	Pneumatic / Electric Act. Valve
Operating Pressure:	2-6 Bar

Stainless Steel Tank Single and Tandem Softening Systems



Single Softening System

TECHNICALS SPECIFICATIONS

Diameter:	Ø1000 mm ... Ø3200 mm
Cylindrical Height:	2000 mm
Type:	Vertical / Horizontal
Tank Material:	304 / 316 Stainless Steel
Filtration Rate:	< 40 m/h
Inner Distribution Structure:	Nozzle
Piping:	304 / 316 Stainless Steel
Control:	Pneumatic / Electric Act. Valve
Operating Pressure:	2-6 Bar

SOFTENING SYSTEMS

Salt Tank



TECHNICALS SPECIFICATIONS

Volume: 100 lt ... 5000 lt

Type: Vertical

Tank Material: PE





SOFTENING SYSTEMS



info@miranda-tr.com



+90 (312) 473 40 70



+90 (312) 473 32 62



Beyaz Zambaklar Sokađı No:34 /2

PK:06700

Gaziosmanpařa / ANKARA

www.miranda-tr.com