Water Technologies & Solutions

Service Deionization (SDI) solutions customized high purity DI systems

ready for the resource revolution

suez

customized high-purity water systems

SUEZ's Service Deionization (SDI) solutions can be customized to provide an ideal solution for high-purity water needs requiring up to 18.2 Megohm water. We have a number of equipment options to meet any high-purity water need.

TurboFlo*

benefits

- Reduce regenerate delivery and storage
- Eliminate on-site regenerations
- Ideal for zero-discharge
- Improve safety records reducing chemicals
- Engineered for UPW
- Provides high quality and low TOC throws
- Consolidation of vessels
- Quick exchanges

typical applications

- Mixed Bed Polisher
- Separate Anion/Cation beds
- Multi-Media Filtration
- Activated Carbon
- Softeners
- Emergency Service

TurboFlo specifications

Vessel	150 psi ASME coded carbon steel 3/16" thick rubber lined
Sight glass	At media height for inspection
Internals	FDA approved rubber lining and electropolished 316 stainless steel headers and laterals
Inlet/Outlet	3" or 4" (8 or 10 cm) camlock disconnect
Capacity	42 ft^3 (1.2 m^3)
Media	Mixed bed ion exchange resin, separate cation or anion resin, activated carbon multimedia, sand
Capacity	25 to 200 gpm (5.7 to 45.4 m^3/h)

answering your pure water needs

Versamate*

Vessels are constructed entirely of fiberglass reinforced plastic (FRP) material with a maximum recommended operating pressure of 100 psi. Three different vessels are available containing 15, 25, and 35 ft^3 (0.4, 0.7, and 1.0 m^3) of resin or media to cost-effectively meet customer needs. Operating flow rates range from 20 to 75 gpm (0.1 to 0.3 m^3/h) through 2 in. (5 cm) diameter interconnections.

standard deionization tanks

SUEZ Standard Deionization Tanks use semiconductor grade resins. These resins are regenerated in our high quality regeneration facilities. The tanks are available with Cation, Anion resin, Mixed Bed resin, and also Activated Carbon. All resin tanks are marked with color-coded labels that indicate the tank fill date, TOC count, silica level, and rinse quality.

standard deionization tank specifications

Size (ft^3)	Capacity (grains as $CaCO_3$)	Flow Rate (gpm)
3.60	25,200	10 to 15
0.5	3,750	0.25 to 3
0.25	1,750	0.5 to 2

ultrapure water tanks

SUEZ will provide either Separate Bed or Mixed Bed configuration sets of tanks, depending on the level of contaminants in a particular customer's feed water. After passing through the SUEZ Ultrapure tanks, the water improves from a level in the hundreds of parts per million of minerals down to between zero and twenty-five parts per million.

The capacity of a set of tanks is directly related to the mineral content of the feed water going to the tanks. A feed sample is necessary to determine the required configuration for your site.

ultrapure water tanks

Cu. Ft. (Cu. Meter)	Wt., lb (kg)	Diameter inch (cm)	Height w/o base inch (cm)	Height w/base inch (cm)	Std. Thread
1.6 (0.05)	125 (57)	10.2 (0.9)	40.0 (102)	40.5 (103)	2.5 - 8
3.6 (0.10)	300 (136)	13.1 (33)	54.0 (137)	54.8 (139)	2.5 - 8

VersaFlo* mobile demineralizers

The SUEZ VersaFlo Mobile Demineralization Trailer can be provided in custom configurations to match up with the chemistry of your supply water. This results in maximum throughput capacity from each VersaFlo Trailer and reduced costs per gallon. Each Mobile Trailer utilizes lightweight vessels to maximize resin loading capability. Depending on configuration, the VersaFlo System can supply up to 400 GPM and more than eight million grains of total dissolved solids (TDS) removal capacity—the highest available. The SUEZ fleet of Mobile Trailers is available 24 hours a day, 365 days a year. The VersaFlo system can be delivered for emergency service, standby backup, or as part of your normal water treatment system.

In addition to providing demineralized water, the flexibility of the VersaFlo System allows for configurations to meet other customer requirements such as multi-media and carbon filtration, dealkylization, and water softening. Each VersaFlo Trailer is also set up for connection to decarbonation equipment for removal of carbon dioxide.

VersaFlo trailer specifications

Length	48'
Width	8'6"
Height	12'6"
Oper. weight	80,000 lb
Inlet/Outlet connections	3–4"
Max. flow	400 GPM
Max. press	100 PSI
Max. temp	120°F
Electric power	110 V 10–60 H_Z 15 Amps

consumables

- Disposable Cartridge Filters
- Disposable DI Cartridge Filters
- Plastic and Stainless Steel Filter Housings
- Resistivity/Conductivity Monitoring Systems
- Multi-Parameter Monitoring Systems
- Ultraviolet Disinfection/TOC/O3 Destruct units

SUEZ SDI provides value

- Process consistency
- Modular system sizing
- 24/7 local field service, where permitted
- 24/7 technical support
- No hazardous chemicals
- Reduced site labor costs
- Zero capital cost systems
- Guaranteed performance
- Up to 100% water recovery
- Superior regeneration quality

Find a contact near you by visiting www.suezwatertechnologies.com and clicking on "Contact Us."

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