



Shown here are a few of our tank models from left to right: 8x44, 6x18 and 14x47. Each tank features quick connect fittings for easy installation, service and exchange.

Service Deionization - USA

Premium Grade Mixed Bed Deionizers

Service Deionization (SDI) is the most efficient process for removing dissolved salts and minerals; mixed bed deionizers provide higher quality, neutral pH, and better removal of silica and CO₂ than separate bed systems. Our portable mixed bed units produce the quality of water required for any application, up to 18.2 megohm-cm resistivity at 77° F.

Quality Control of the entire regeneration process ensures optimal performance of our SDI units, including resin selection, product inspection, documented process controls, and tank traceability. Only resins of the highest quality are used so that water quality will not be compromised.

Customized Systems allow for greater flexibility in order to achieve the necessary water quality. We offer flexibility using SDI systems and offer a wide variety of replacement filter cartridges, membranes, parts, and accessories including service contracts to keep facilities up and running.

Operating Parameters

Max. Operating Pressure & Temperature
0.25 - 3.6 ft³ 90 psi/100° F
Turbidity 5 NTU
Color 5 units
Organics 3 ppm
Manganese and Iron ... 0.3 ppm
Free Chlorine 0.2 ppm

Tank Specifications

Construction Fiberglass
Head PVC
Internals PVC
Fittings See Chart
Media Mixed Bed Resins

Typical Applications

- General Industry
- Hemodialysis
- Laboratory
- Microelectronics
- Rinsing
- Pharmaceutical / Biotech

Mixed Bed Service Deionization (SDI) Specifications

Model Number	Max. Flow Rate USGPM (LPM)	Resin Volume (ft ³)	Inlet / Outlet Ports	Dimensions W x H (Inch)	Weight (Wet) Lbs. (kg)
6x18	2.0 (7.6)	0.25	SIDE 3/4" MGHT	7 x 20	25 (11.3)
8x18	2.0 (7.6)	0.5	SIDE 3/4" MGHT	9 x 20	32 (14.5)
6x35	2.5 (9.5)	0.5	SIDE 3/4" MGHT	7 x 37	73 (33.1)
8x44	4.0 (15.1)	1.25	SIDE 3/4" MGHT	9 x 46	135 (61.3)
12x36	7.0 (26.5)	2.2	TOP 3/4" MGHT	13 x 38	198 (89.9)
14x47	10.0 (37.9)	3.6	TOP 1" QD	15 x 52	305 (138.5)

Note: All weights and dimensions are approximate. Higher flow rates can be obtained with parallel configurations. Jumbo tanks are available upon request.

Accessories Available

- Service carbon and activated carbon cartridges
- Resistivity light or monitor w/ audio unit
- Remote indicator
- Ultraviolet lights
- Recirculation pumps
- Filter cartridges and housings

Media Options

- Separate bed cation / anion
- Single use

Installation Considerations

- System operates on tap pressure, within a pressure range of 25-60 psi and a maximum pressure of 90 psi.
- The system must be installed on a firm, level surface.
- A floor drain is recommended.
- Accessories may require electrical connections.

Service Policy

Mar Cor Purification offers ion exchange resin services. This service is processed at Mar Cor owned and operated facilities in Philadelphia, Atlanta and Chicago. All regeneration facilities process only resins that are used in potable water treatment applications. We do not handle or process resins used in industrial applications involving reclamation of heavy metals or exposure to hazardous organic chemicals. All tanks are considered rental and will remain the property of Mar Cor Purification unless structured otherwise. Rental periods consist of 3, 6 and/or 12 months. We offer 24/7 service from any of our US service centers.

For More Information

Contact one of our application specialists in the US at (800) 346-0365, or visit www.mcpur.com



Mar Cor Purification USA - 4450 Township Line Rd.
Skipack, PA 19474-1429 Tel: (484) 991-0220
Toll Free: (800) 346-0365 Fax: (484) 991-0230

Mar Cor Purification CAN - 3250 Unit 6 Harvester Rd.
Burlington, ON L7N 3W9 Tel: (905) 639-7025
Toll Free: (800) 268-5035 Fax: (905)-639-0425