



Portable Exchange Deionization

Premium Grade Mixed Bed Deionization Tanks

Portable Exchange Service Deionization (SDI) is the most efficient and economical way to obtain consistent, high-purity water from a potable water supply. Our premium mixed bed deionizers provide higher quality water with a more 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 25°C.

These portable exchange tanks provide greater flexibility than permanent systems by delivering treated water where you need it. This custom approach provides consistent water quality when resources and budgets are limited. These units are excellent for low flow rates, limited water quantities, or just temporary requirements. Your involvement is minimal because our local service technicians handle the removal and replacement keeping you with a constant supply of treated water with no on-site chemicals.

Mar Cor Purification is committed to quality control. From materials, to methods, to documentation, all of our processes are designed to produce consistent and compliant products each and every time assuring our customers the highest quality water and performance from each filled carbon tank and each regenerated deionizer. For critical medical applications our Carbon and SDI systems are prepared in FDA registered facilities in accordance with QSR/GMP (Quality System Regulations/Good Manufacturing Practices) requirements.

Tank Specifications

- ConstructionFiberglass
- HeadPVC
- InternalsPVC
- Fittings See Chart
- Media Mixed Bed Resins



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

Typical Applications

- General Industry
- Hemodialysis and Life Sciences
- Laboratory
- Microelectronics
- Rinsing
- Pharmaceutical/Biotech

Portable Exchange 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)
6 x 18	2.0 (7.6)	0.25	SIDE 3/4" MGHT	7 x 20	25 (11.3)
8 x 18	2.0 (7.6)	0.50	SIDE 3/4" MGHT	9 x 20	32 (14.5)
6 x 35	2.5 (9.5)	0.50	SIDE 3/4" MGHT	7 x 37	73 (33.1)
8 x 44	4.0 (15.1)	1.25	SIDE 3/4" MGHT	9 x 46	135 (61.3)
12 x 36	7.0 (26.5)	2.20	TOP 3/4" MGHT	13 x 38	198 (89.9)
14 x 47	10.0 (37.9)	3.60	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 & 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, Boston, 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. We offer 24/7 service from any of our US service centers.

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