

Mobile Demineralizers Systems



MOBILE DI FOR MAXIMUM VERSATILITY

For over thirty years, Evoqua Water Technologies, now part of Xylem, has met the short-term and emergency treated water needs of its customers using Mobile Demineralizer (DI) trailers. These trailers are the treatment of choice for zero-discharge applications and seasonal treated water needs. A reliable and extensive service network, an ever-expanding trailer fleet, and strategically located regeneration facilities allow Evoqua Water Technologies to serve its large North American customer base quickly and effectively.

Mobile DI services allow customers to meet their treated water needs without on-site waste generation, hazardous chemical handling or capital investment. Evoqua uses the following trailers to match customers' exact capacity and flow needs with the right solution:

- HCC 10K – This versatile deionization trailer is nominally configured with 24 vessels. Its configuration can be changed among cation, anion, and mixed bed vessels. Each vessel holds up to 42 ft³ of resin for a nominal capacity of 6.5 million grains.
- MT 3500 – A high capacity single train trailer with a nominal 4.5 million grain capacity. Depending on configuration flow rates change from 50 - 250 gpm. A trailer with a 4.5 million grain capacity.
- MT 4500 – A four-vessel trailer, includes a weakbase anion vessel. With flows of 200 gpm and capacities of up to four million grains on certain feedwaters, this trailer is ideally suited for water with high free mineral acidity.
- MT 3000 – A three-vessel trailer with a nominal three million grain capacity and flow rates to 200 gpm.

TYPICAL USES

- Capacity expansions
- Zero discharge applications
- Pilot plant water needs
- Interim use until a permanent system is installed
- Process water quality changes
- Existing demineralization system environmental
- salt discharge problems
- Scheduled shutdowns
- Seasonal water needs
- Emergency water needs

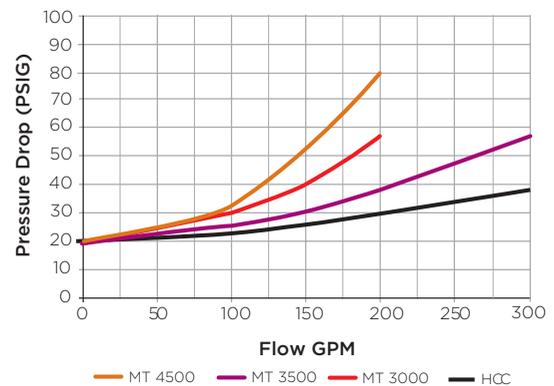
A TRAILER FOR EVERY NEED

Series	MT 3000	MT 4500	MT 3500	HCC
Nominal exchange capacity (kgr)*	3,000	4,500	4,500	6,500
Vessels	3 tanks/trailer	4 tanks/trailer	3 tanks/trailer	24 tanks/trailer
Vessel composition	Carbon steel	Carbon steel	Carbon steel	Fiberglass
Vessel lining	Vulcanized rubber	Vulcanized rubber	Vulcanized rubber	Vulcanized rubber
ASME	Yes	Yes	Yes	Yes
Flow rate (gpm) min./max.	50/200	50/200	50/250	50/400
Inlet pressure (psig) min./max.	45/100	50/100	40/100	40/100
Inlet/outlet hose connections	2.5" Minimum	2.5" Minimum	2.5" Minimum	2.5"
Weight (lbs.) shipping/operating	35,000/42,000	47,000/62,000	60,000/84,500	59,000/95,000
Dimensions - Length x Width x Height	32' x 8' x 13.5'	32' x 8' x 13.5'	43' x 8' x 13.5"	48' x 8.6' x 13.6'
Trailer electrical requirements	115 V, single phase, 60 hz, 10 amps			
Heater electrical requirements	(2) 115 V, single phase, 60 hz, 30 amps			
Instrumentation	Flow indicator and totalizer on main header; pressure gauges and sample ports; conductivity meters on primary and polish outlet ports			
Feedwater requirements	Turbidity < 3 NTU — Free chlorine < 0.25 ppm			
Typical water service quality	Conductivity: 1.0 - 0.1 µS-cm and silica leakage < 20 ppb			

*Based on a 1 µS-cm end point



PRESSURE DROP VERSUS FLOW



*These pressure drops are from the inlet of the trailer to the outlet connection. The MT 3500 has one train at 250 gpm.



+1-866-926-8420 evoqua.com

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