

Mobile Demineralizers Systems

Mobile DI for Maximum Versatility

For over thirty years, Siemens Water Technologies 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 Siemens Water Technologies to serve its large North American customer base quickly and effectively.

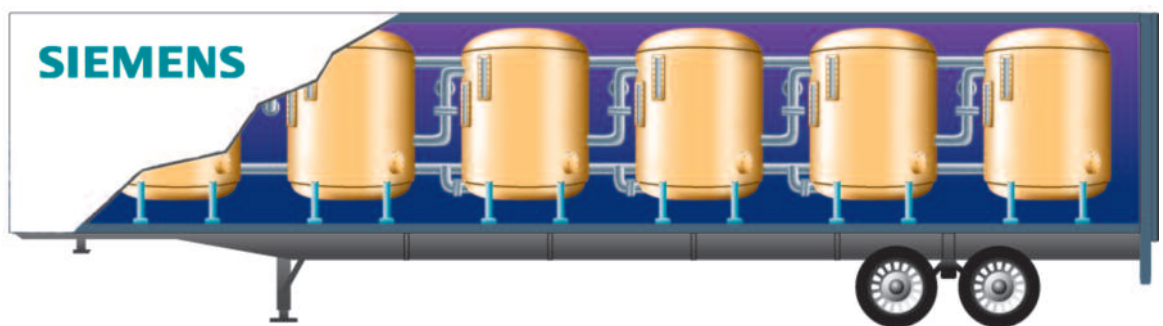
Mobile DI services allow customers to meet their treated water needs without on-site waste generation, hazardous chemical handling or capital investment. Siemens uses the following trailers to match customers' exact capacity and flow needs with the right solution:

- MT 5500 – This versatile DI trailer is normally configured with six vessels: two cations, three anions, and one mixed bed. Each vessel holds up to 100 ft³ of resin for a nominal capacity of five million grains. Depending upon configuration, flow rates range from 100-400 gpm.
- MT 5000 – A six-vessel trailer with a nominal five million grain capacity. This two-train trailer offers 300 gpm per train (600 gpm total).

- MT 4500 – A four-vessel trailer, includes a weak-base 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:

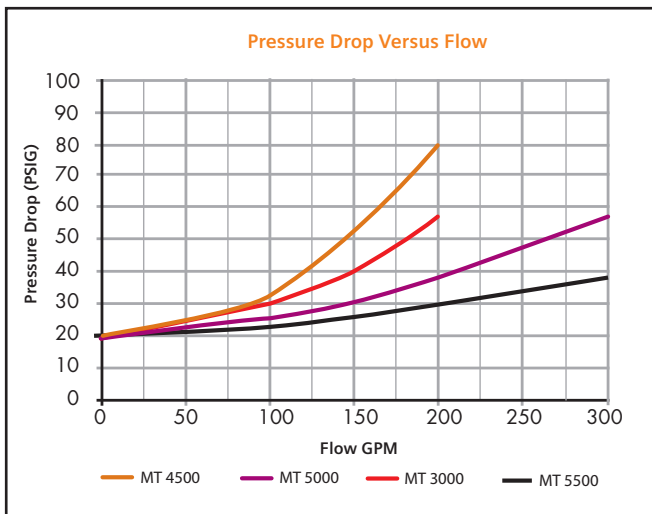
- Capacity expansions
- Zero discharge applications
- Pilot plant water needs
- Interim use until a permanent system is installed
- Process water quality changes
- Existing demineralization system environmental salt discharge problems
- Scheduled shutdowns
- Seasonal water needs
- Emergency water needs



A Trailer For Every Need

Series	MT 3000	MT 4500	MT 5000	MT 5500
	Effective for lower flow rate and low TDS water applications (especially for power industry)	Effective in low alkalinity/high FMA (free mineral acidity) applications	Highest flow rate per trailer in the industry, completely automatic two-train system	Versatility with 6x100 ft ³ vessels, the 5500 can be configured to provide highest capacity or most effective flow rate
Nominal exchange capacity (kgr)*	3,000	4,500	5,000	5,000
Vessels	3 tanks/trailer	4 tanks/trailer	6 tanks/trailer	6 tanks/trailer
Vessel composition	Carbon steel	Carbon steel	Carbon steel	Carbon steel
Vessel lining	Vulcanized rubber	Vulcanized rubber	Vulcanized rubber	Vulcanized rubber
ASME	Yes	Yes	Yes	Yes
Flow rate (gpm) min./max.	50/200	50/200	50/600	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"-4" Minimum
Weight (lbs.) shipping/operating	35,000/42,000	47,000/62,000	60,000/84,500	58,000/84,500
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 8.5' x 13.5'
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



*These pressure drops are from the inlet of the trailer to the outlet connection. The MT 5000 has two trains @ 300 gpm each.

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