

# Dual-Bed Deionizers

## Moderately Sized Deionization Applications

**DM-6000**

**SERIES**

Engineered for medium-sized deionization (DI) applications, these dependable units feature the same precision electronics and performance characteristics as their large-scale counterparts, all in a smaller, top mounted package. Applications cover the full spectrum of industrial, commercial, medical and agricultural uses.

### Standard Features

- Auto regeneration on preset water quality limit
- Constant monitoring of water quality
- Solid-state reliability for trouble-free service
- No untreated by-pass water
- Automatic shut down in the event of power failure
- Compact, non-corrosive components
- Fiberglass tanks for corrosion resistance
- Convenient, modular construction
- Easy, economical installation
- Optional recirculation pumps
- Parallel or Series regeneration
- Programmable purge prior to regeneration
- 12 volt operation (120V/1pH/60Hz transformer incl.)

### Applications

- Paints
- Chemicals
- Cosmetics
- Electronics
- Textiles
- Plating
- Ice Plants
- Printing
- Boiler feed
- Film processing
- Electrodeposition
- Metalworking lubricants
- Washes - cars to aircrafts
- Humidification control
- Testing and materials
- Research and development
- Glassware rinse
- Hospitals/Medical
- Horticulture/Greenhouse
- Food/Beverage processing



Pure Aqua supplies a full line of standard and fully customizable dual bed deionizer systems, all of which are engineered using advanced 3D computer modeling and process design software for accurate and customized solutions.

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### System Features

- Custom programmable for automatic precision and simplicity.
- Delivers duplex DI water more economically than any other deionizer.
- The most advanced DI control package available.
- No other DI controls offer so much performance at such a low price.
- The digital-type meter displays both water quality and regeneration time remaining.
- Tank polisher can be accommodated under the single control to pick up sodium or silica leakage, allowing you to easily attain higher purity water at less expense.
- Single set of printed circuit boards control both simultaneous and sequential regeneration.
- All programming features are easily accessible on the front panel.
- Indicator lights show at a glance which phase of the regeneration cycle the system is in.
- Direct education of chemicals through multiport valves eliminates additional valves.
- Automatic pre-rinse prior to regeneration prevents false regeneration and preserves chemicals.
- Monitored final rinse rids the system of residual chemicals before the deionizer returns to service.
- Test ports allow sampling of decationized and final DI water to check system performance.
- Modular construction reduces downtime and simplifies troubleshooting and service.
- Rugged NEMA 12 electrical enclosures, standard on all controls, meet or exceed NEMA showering arc (ICS 2-230), surge withstand (IEEE 587) and electrostatic discharge (MIL-STD-88380).
- Automatic shutoff during power failure stops resins from being exhausted past quality endpoint.
- NOVRAM backup saves all data during a power failure, then returns the display to the last data point when power is restored. No batteries are required.
- A low level sensor can be easily wired into the control to warn of low chemical volumes.
- Provisions for a remote control panel and auxiliary "START REGENERATION" source allow regeneration to be initiated and controlled from a remote location.
- Level controlled shutoff can be utilized with the addition of a float switch in the storage tank.
- Relays and fuses on the power circuit allow for the operation of recirculation and supply pumps.

Model #	Nominal Capacity (Grains)	Service Flow (GPM)		Pipe Size	Mineral Tank Size	Resin Quantity (ft <sup>3</sup> )		Shipping Weight (lbs)
		Cont.	Peak			Cation	Anion	
DM12-Q-FRP	40,000	2	8	1"	12"x52"	2	2	400
DM14-Q-FRP	65,000	4	10	1"	14"x65"	3.25	3.25	800
DM18-Q-FRP	100,000	6	14	1"	18"x65"	5	5	1400

Pure Aqua also supplies: Custom Engineered Solutions, Multimedia Pretreatment, Activated Carbon Pretreatment, Water Conditioning, Chemical Dosing Systems, Ultraviolet (UV) Sterilizers and Ozonation Systems.

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