

STANDARD FEATURES:

- Pre-Engineered Design With Flows from 15-195 gpm
- Ironically Balanced Cation & Anion Vessels
- Sprayed & Baked PVC Coating on Carbon Steel Tanks Surfaces
- Top & Bottom PVC Hub & Radial Distributors
- Corrosion Resistant True Union Air Actuated Ball Valves
- PLC in NEMA12 Enclosure for Fully Automatic Operation
- Thornton Meter for Conductivity & Flow Measurements
- 100 psig Rated Tanks Mounted on Unitized Steel Base
- Strong Base Type II Anion for Maximum Capacity
- Factory Assembled Piping
- Hydrostatic & Factory Tested Prior to Shipment

ADVANTAGES:

- Uses Less Water Than a Comparable RO System
- Materials Selected to Maintain Water Quality and Long Service
- High Quality Water Despite Changes in Water Flow Rate
- Standard Designs Reduce Cost, Installation and Delivery Time
- Simple Operation Reduces Operator Training Requirements

OPTIONS INCLUDE:

- ASME Code Vessels
- Rubber-Lined Steel Tanks
- Strong Base Type I Anion Resin
- Weak Base Anion Resin
- Low Flow Rinse Recirculation Pump
- Weir Type Fail Close Diaphragm Valves
- CPVC Piping & Valves

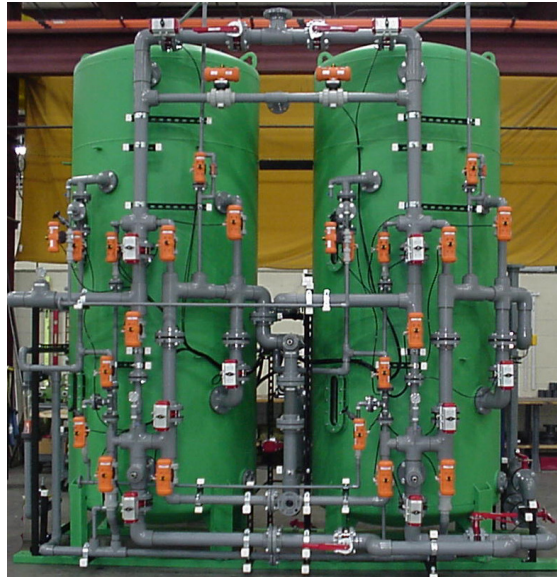
**For Options Not Listed Here
Please Contact Nalco Res-Kem**

Nalco Res-Kem engineered these dual bed deionization systems to match your water requirements. Using simple, time proven cation and anion ion exchange resin technology, these compact systems can produce high quality water with the lowest water usage for lower TDS waters and/or where treated water demand is highly variable.

Nalco Res-Kem's industrial two-bed deionizers are available as standard pre-engineered, skid-mounted units which can be customized to meet a wide range of individual customer requirements.

Variety of Standard Sizes

Ranging in size from 18" to 72" in diameter and with flows from 15 to 195 gpm, these two bed deionizers are a highly efficient means of removing dissolved solids from water. Regeneration of the system is initiated by conductivity, time, and/or totalized flow. The deionizers can be supplied in combination with a full range of options and related equipment to provide a fully integrated water purification system.



Cation & Anion Deionization System with Optional CPVC Piping

Nalco Res-Kem's Dual Bed Deionization Systems are designed for full-automatic operation. These systems will integrate into a complete water treatment system without expensive custom field engineering and programming.

Why use a Deionized Water System?

Deionized water is required in many industries, applications, and processes. Nalco Res-Kem offers a series of pre-assembled systems for the production of a continuous supply of deionized water. Some of the many applications for DI water are in:

- Chemical Plants
- Autoclave Steam Generators
- Medical Device Production
- Aerospace
- Pharmaceutical Plants
- Electronic Products
- Alloy Metal Fabrication
- Metal Treating and Plating

Model Number	Normal Flow gpm	Minimum Flow gpm	Cation Resin cuft	Anion Resin cuft	Overall Capacity Kgr CaCO ₃	Tank Size D X H inches	Approximate Dimensions W x D x H inches
DI18072-006A007B	15	4	6	7	140	18 x 72	66 x 33 x 82
DI24072-010A012B	25	6	10	12	240	24 x 72	78 x 43 x 87
DI30072-017A020B	40	10	17	20	400	30 x 72	79 x 42 x 96
DI36072-025A029B	55	15	25	29	580	36 x 72	90 x 55 x 99
DI42072-033A038B	75	20	33	38	760	42 x 72	109 x 67 x 101
DI48072-042A049B	100	25	42	49	980	48 x 72	114 x 71 x 106
DI54072-053A062B	125	30	53	62	1,240	54 x 72	126 x 80 x 106
DI60072-066A077B	155	40	66	77	1,540	60 x 72	138 x 88 x 108
DI66072-079A092B	185	45	79	92	1,840	66 x 72	152 x 95 x 108
DI72072-094A110B	220	85	94	110	2,200	72 x 72	170 x 102 x 112
DI78072-111A129B	280	96	111	129	2,580	78 x 72	180 x 118 x 112
DI84072-115A129B	300	115	129	150	3,000	84 x 72	192 x 116 x 122
DI90072-130A148B	345	130	148	172	3,750	90 x 72	204 x 122 x 124
DI96072-145A168B	390	145	168	195	3,900	96 x 72	215 x 122 x 130

For your specific water source, contact Nalco Res-Kem for capacity estimates

Features	Standard	Optional
System Design and Operation		
PVC-Lined Steel Pressure Tank	◆	
Steel Pressure Tank with Rubber Lining		◆
ASME Code Vessel Construction		◆
PVC Hub & Radial Distributors and Internal Piping	◆	
PVC True Union Ball Valves	◆	
Weir-Type Diaphragm Valves		◆
Schedule 80 PVC External Piping	◆	
Manual System Isolation Valves		◆
Parallel or Alternating Operation for Multiple Units		◆
Skid Assembly	◆	
Interconnecting Piping between Multiple Units		◆
Instrumentation and Controls		
Full-Automatic Controls with Manual Override	◆	
Manual, Semi-Automatic, or Full-Automatic Controls	◆	
Demineralized Water Conductivity Sensor	◆	
Demineralized Water Flow Sensor	◆	
Caustic and Acid Concentration Sensors		◆
Inlet and Outlet Pressure Gauges	◆	
NEMA 12 Electrical Enclosure	◆	
Programmable Logic Controller	◆	