

STANDARD FEATURES:

- Package Design With Flows from 15-115 gpm
- Corrosion Resistant Aquamatic Air Actuated Diaphragm Valves
- Fully Automatic Microprocessor Controller in NEMA4XFG Enclosure
- Thornton Meter for Conductivity, Concentration and Flow Measurement
- Poly-lined FRP Cation and Anion Tanks
- Conductivity above 10 micro-mhos
- Tanks Mounted on FRP Skid
- Factory Fitted Interconnecting Piping

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:

- Electric or Air Actuated Ball or Butterfly Valves
- Rubber-Lined Steel Tanks
- Carbon Pretreatment
- Storage Tanks
- Recirculation Loop Pump, Back-Pressure Regulation & Controls
- Polishing Demineralization
- UV Sterilization
- Polishing Loop Resistivity Monitors

For Options Not Listed Here Please Contact Res-Kem

Res-Kem engineered OHM-Ω-TECH 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.

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

Variety of Standard Sizes

Ranging in size from 18" to 48" in diameter and with flows from 15 to 115 gpm, the OHM-Ω-TECH Series 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.



Dual Bed Cation and Anion Deionization System

Res-Kem Ohm-Ω-Tech 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?

High pure water treatment is required in many industries, applications, and processes. Res-Kem offers a series of pre-assembled systems for the production of a continuous supply of high purity deionized water. Some of the many applications for high purity water are in:

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|------------------------------|---------------------------|
| • Chemical Plants | • Pharmaceutical Plants |
| • Autoclave Steam Generators | • Electronic Products |
| • Medical Device Production | • Alloy Metal Fabrication |
| • Aerospace | • Humidification Systems |
| • Metal Treating and Plating | • Printed Circuit Boards |



FEATURES AND SPECIFICATIONS

Model Number	Service Flow gpm	Cation Resin cuft	Anion Resin cuft	Capacity Kgr CaCO ₃	Tank Size D X H inches	Pipe Size	Approximate Dimensions inches
TB18(5.5)F	15	5.5	5.5	102	18 x 65	1"	66 x 36 x 94
TB20(6.5)F	20	6.5	6.5	120	20 x 72	1"	66 x 36 x 88
TB21(6.5)F	20	6.5	6.5	120	21 x 62	1"	66 x 36 x 90
TB24(10)F	30	10	10	185	24 x 72	1-1/2"	78 x 42 x 102
TB30(16)F	45	16	16	296	30 x 72	1-1/2"	96 x 48 x 102
TB36(24)F	65	24	24	444	36 x 72	2"	108 x 54 x 102
TB42(34)F	90	34	34	629	42 x 72	2-1/2"	126 x 60 x 108
TB48(44)F	115	44	44	814	48 x 72	3"	144 x 66 x 108

Specification Bases: (For your specific water source, contact Res-Kem Corp for estimates)

Service Flow Rate: Approximately 9 gpm/ft²

Capacity Basis: Regeneration Level is 8 lbs 100% HCl /ft³ of cation resin; 10 lbs NaOH /ft³ of anion resin

Features	Standard	Optional
System Design and Operation		
Poly-Lined Fiberglass Pressure Tank	◆	
Steel Pressure Tank with Rubber Lining		◆
ASME Code Vessel Construction		◆
PVC Hub and Lateral Distribution and Internal Piping	◆	
Plastic Aquamatic Diaphragm Valves	◆	
Plastic Ball or Butterfly 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 4XFG Electrical Enclosure	◆	
Allen Bradley Programmable Logic Controller		◆