

DT WATER SOFTENERS

STANDARD FEATURES:

- Continuous Flows up to 42 gpm
- NSF Approved Fiberglass Tanks
- 8% Crosslinked, High Capacity Cation Resin
- Hub and Lateral or Strainer Distributors as Appropriate
- Meter Initiated Regeneration
- Brine System
- Backwash Flow Controller

ADVANTAGES:

- Dual Tank Design Provides Continuous Flow
- Materials and Coatings Selected to Withstand Corrosive Environments
- Reliable, Low Restriction Valves
- Non-Clogging Distributors Allow Operation Over Wide Flow Rate Range and for Even Distribution
- Standard Designs Reduce Cost and Delivery Time
- With Proper Service, the Robust Design Virtually Eliminates Operator Involvement

OPTIONS:

- 3200ET Electronic Valve and Meter for Easy Programming and Flow Measurement
- 9100 Non-Metallic Valve and Piping
- 10% Crosslinked Cation Resin
- Fine mesh Cation Resin
- Macroporous Cation Resin
- Factory Assembled, Pre-piped and Wired Skid
- Manual Unit Isolation Valves
- Hot Water Capable Unit



Nalco Res-Kem DT Softeners are available in a wide range of self-contained packages configured in dual tank, meter demand systems to remove calcium and magnesium hardness from your water. Nalco Res-Kem DT Softeners are designed for light commercial and industrial water softening applications. These automated units are designed to provide continuous soft water 24 hours per day. The only operator attention needed is to put salt in the brine tank.

Economical and efficient, the heart of the Nalco Res-Kem DT Softener is the 9000, 9001, or 9500 Series Econominder all brass control valve. With a meter initiated, twin tank alternating design, one tank is in service while the second is held in stand-by. These rugged control valves provide a low maintenance, high flow rate, and quality system able to meet the most demanding needs. A lower cost option is a Nalco Res-Kem DT Softener based upon the 9100 and 9101 Series non-metallic valves.



DT9500-5ET



DT9101-4



DT9001-4

Why use a Water Softener?

Calcium and magnesium are hard scale forming minerals that build up on piping, heat exchangers, water heaters, boilers, and any steam equipment. This buildup results in costly repairs, increased energy consumption, plugged heat exchangers and boiler tubes. Also, hardness greatly reduces the service life of linens, clothing, appliances, and plumbing fixtures.

The following facilities are examples of ideal applications for water softening equipment:

- Apartments/Condominiums
- Car Washes
- Laundries
- Light Manufacturing Plants
- Boiler Pretreatment
- Office Complexes
- Hospitals
- Institutions
- Large Homes



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FEATURES AND SPECIFICATIONS

Model	Capacity @ 15lbs NaCl per CF (grains)	Flow Rates (gpm)		Tank Size Diameter x Height (inches)	Resin Quantity per tank (cu. ft.)	Brine Tank Diameter x Height (inches)	Salt Storage Quantity (lbs.)	Shipping Weight (lbs.)	Approximate Dimensions L x D x H Inches
		Service	Peak						
DT9000-0	15,000	4	6	8x35	1/2	14x34 (Square)	280	148	46 x 14 x 42
DT9000-2	30,000	8	12	10x40	1	14x34 (Square)	280	218	50 x 14 x 47
DT9000-4	60,000	10	16	12x52	2	18x35	320	373	54 x 18 x 60
DT9000-5	90,000	14	20	14x65	3	24x54	840	509	64 x 24 x 72
DT9001-2	30,000	8	12	10x40	1	14x34 (Square)	280	223	50 x 14 x 47
DT9001-4	60,000	10	18	12x52	2	18x35	320	378	54 x 18 x 60
DT9001-5	90,000	14	20	14x65	3	24x54	840	514	64 x 24 x 72
DT9001-6	120,000	18	24	16x65	4	24x54	780	656	68 x 24 x 72

DT9100-0	15,000	4	6	8x35	1/2	14x34 (Square)	280	148	46 x 14 x 43
DT9100-2	30,000	8	12	10x40	1	14x34 (Square)	280	218	50 x 14 x 48
DT9100-4	60,000	10	16	12x52	2	18x35	320	373	54 x 18 x 61
DT9100-5	90,000	14	20	14x65	3	24x54	840	509	64 x 24 x 73
DT9101-2	30,000	8	12	10x40	1	14x34 (Square)	280	223	50 x 14 x 48
DT9101-4	60,000	10	18	12x52	2	18x35	320	378	54 x 18 x 61
DT9101-5	90,000	14	20	14x65	3	24x54	840	514	64 x 24 x 73
DT9101-6	120,000	18	24	16x65	4	24x54	780	656	68 x 24 x 73

DT9500-5ET	90,000	14	22	14x65	3	24x54	800	524	64 x 24 x 72
DT9500-6ET	120,000	18	28	16x65	4	24x54	770	656	68 x 24 x 72
DT9500-7ET	150,000	27	34	18x65	5	24x54	730	800	72 x 24 x 75
DT9500-8ET	195,000	36	42	21x62	6 1/2	24x54	660	1070	84 x 24 x 75
DT9500-10ET	270,000	42	50	24x72	9	30x48	880	1480	96 x 30 x 82

Service Flow Rate: 15 gpm/ft2 Nominal (For your specific water application, contact Nalco Res-Kem for sizing)
 Peak Flow Rate: 20 gpm/ft2 Nominal
 Tank: Size and color may vary based upon local requirements

Features	9000 Series	9001 Series	9500 Series	9100 Series	9101 Series
System Design and Operation					
NSF Approved Fiberglass Tank	◆	◆	◆	◆	◆
Brass Valve And Yoke Assembly	3/4"	1"	1 1/2"		
Plastic Valve And Yoke Assembly				3/4"	1"
Plastic Meter	3/4"		1 1/2"	3/4"	
Brass Meter		1"	Option		1"
PVC, Polystyrene, and/or Polypropylene Distributors	◆	◆	◆	◆	◆
Safety Float Valve in Brine Tank	◆	◆		◆	◆
Commercial Air Check in Brine Tank			◆		
Copper Interconnecting Piping between Tanks	◆	◆	◆		
Plastic Interconnecting Piping between Tanks				◆	◆
Brine Tank (Salt Grid Added for 24" and 30" tanks)	◆	◆	◆	◆	◆
Skid Assembly	Option	Option	Option	Option	Option
Manual System Isolation Valves	Option	Option	Option	Option	Option
Instrumentation and Controls					
Electro-Mechanical Valve and Meter	◆	◆	Option	◆	◆
Electronic Valve and Meter	Option	Option	◆	Option	Option

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