

DTA-SERIES WATER DEALKALIZERS

Res-Kem's DTA-Series dealkalizers are dual tank, meter demand systems designed for light commercial and industrial small boiler applications. These units provide continuous dealkalized water 24 hours per day automatically.

Quality Features

- Fiberglass wrapped mineral tanks
- Durable polyethylene brine tank
- 3/4", 1", or 1-1/2" meter
- 5 cycle variable time control
- Greater commercial capacity in less space
- High capacity "industrial" grade exchange resin
- Metered demand regeneration
- Economical, service friendly

Controls

The heart of the system is the 9000 or 9500 Econominder all brass control valve. It is a twin tank alternating meter initiated system, which has one unit in service while holding the second in stand-by. These rugged control valves provide a low maintenance, high flow rate, quality system able to meet the most demanding needs.

The 9000 is available with a 3/4" Noryl or 1 " brass meter with a capacities to 25,000 gallons. The 9500 is equipped with a 1-1/2" brass meter capable of handling up to 53,000 gallons per regeneration.

The **optional 3200 ET** is an electronic programable option that features a 7 digit display with a user panel layout utilizing LED status/programming indicators. Water hardness, system capacity, and regeneration cycle times are programmed with a few simple pushbuttons. Totalizer and flow rate are displayed in either gallons or liters. An auxiliary relay is included which can be used to operate a chemical pump.

Mineral Tanks

A seamless, rotationally molded polyethylene liner surrounded by a filament wound epoxy resin fiberglass shell gives the tanks superior strength without adding unnecessary weight. All tanks are NSF approved for potable water use, have a threaded top opening and either plastic, rubber, or fiberglass base depending on size.

Exchange Resin

A premium industrial grade high capacity polystyrene

type 2 anion resin is used in all dealkalizers. The maximum exchange capacity is 10,000 grains/ft³ when regenerated with 6 lbs of NaCl/ft³ and .3 lbs NaOH/ft³.

Brine System

The brine holding tank is a combination salt storage/brine measuring tank fabricated from durable polyethylene, cover included. Units are furnished with either a float operated brine suction and refill shut-off valve or a commercial air check.

Distribution System

The internal distribution system is constructed of high-impact PVC, ABS or Polypropylene. The bottom distributor may be a single strainer or a hub and lateral configuration; depending on the size of the system and the required flow rates.

Warranty

The control valve is warranted for two (2) years against defects in material and workmanship. The mineral tanks and brine tank have a limited five to ten year warranty depending on size and type. Contact factory for details.

DTA-SERIES SPECIFICATIONS

Model Number	Resin Tanks (in.)	Brine Tank (in.)	Resin Per Tank/Total (cu. ft.)	Capacity Per Regeneration		Flowrate GPM (2)	Ship Wt. (lbs.)
				NaCl (1)	NaCl + NaOH		
DTA90-2	10x40	18x30	1.00/2.00	7,500	10,000	4	220
DTA90-3	10x54	18x30	1.50/3.00	11,250	15,000	6	300
DTA90-4	12x52	18x30	2.00/4.00	15,000	20,000	8	375
DTA91-5	14x65	18x30	3.00/6.00	22,500	30,000	12	515
DTA91-6	16x65	18x30	4.00/8.00	30,000	40,000	16	645
DTA91-8	21x62	24x54	6.00/12.00	45,000	60,000	20	950
DTA95-6	16x65	24x54	4.50/9.00	33,750	45,000	18	720
DTA95-7	18x65	24x54	5.50/11.00	41,250	55,000	22	855
DTA95-8	21x62	24x54	6.00/12.00	45,000	60,000	24	970
DTA95-10	24x72	24x54	10.00/20.00	75,000	100,000	37	1590

NOTES: 90 Series units have a 3/4" meter and safety float in brine tank.
 91 Series units have a 1" meter and safety float in brine tank.
 95 Series units have a 1 1/2" meter and a commercial air check in brine tank.

- Exchange capacities are based on 250 ppm TDS, 80% alkalinity, flow rate of 2 gpm/ft³ resin, and regenerating with: NaCl = 5 lbs per cubic foot
 NaCl + NaOH = 5 lbs NaCl per cubic foot and 0.25 lbs NaOH per cubic foot
- Flow rates shown are based on a maximum of 4 gpm/ft³ of resin, a hydraulic rate of approximately 10 gpm/ft² and a ΔP of 15 psig.

Note: Exchange capacities shown should be used as a guide only. Actual capacities depend on water chemistry and operating rates. Operating at a flow rate to 4 gpm/ft³ will decrease exchange capacity by approximately 10%.

