



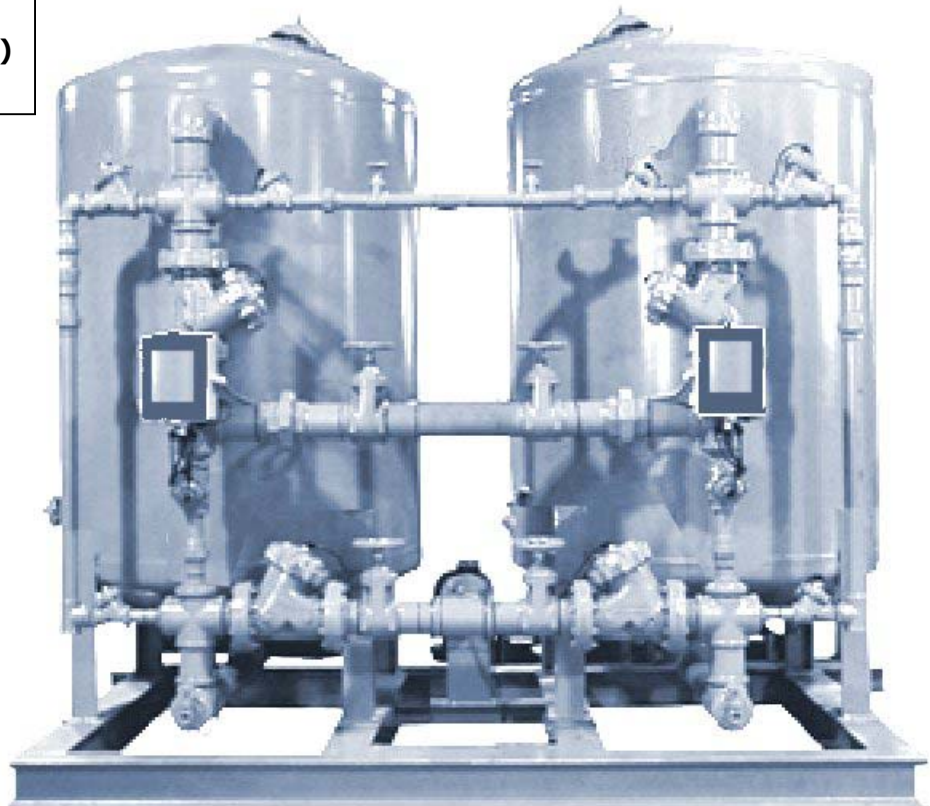
Industrial Dealkalizers ST-DA Series Lined Steel Units 20 to 460 Gallons Per Minute

Industrial Water Purification

Dealkalizers are similar to softeners in that they are regenerated with sodium chloride. (Salt) Their purpose however is for the removal of anion impurities instead of hardness. A dealkalizer uses anion resin to exchange negatively charged ions from water such as carbonate, sulfate, nitrate, and silica, for chloride ions. Capacities and flow rates depend on the feed water chemistry and the anion to be removed. The ST-DA is a special application unit where outdoor installation, high pressures, or the potential for physical abuse are present. No matter which valve arrangement is selected, the Model ST-DA controls will cycle thousands of times with essentially hands-off maintenance.

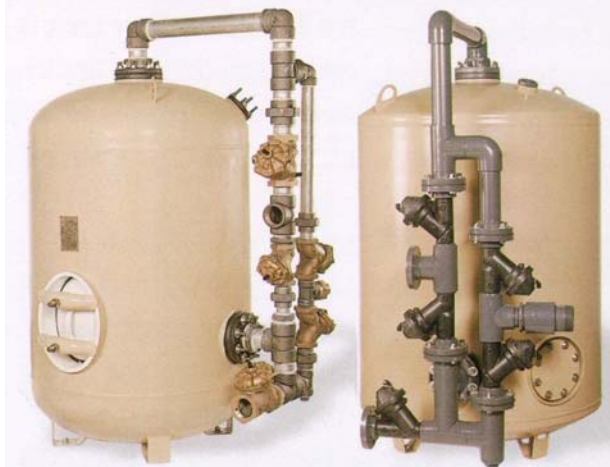
FEATURES

**ST-DA-900-3-DS
Valve Nest – (Duplex Skid)
Automatic Dealkalizer**



- The **ST-DA** series dealkalizers feature reliable loose tolerance control valves.
- An **ST-DA** Series water dealkalizer can be set at low salt dosage for use in areas with capacity/pound salt restrictions, OR a high salt dosage to achieve a carbonate leakage of less than 1.0 ppm.
- All **ST-DA** series dealkalizers feature variable time controls that allow precise system programming. Each cycle can be independently set.
- The **ST-DA** series pressure vessels are constructed of carbon steel and protected by inert corrosion-proof materials. Standard Brine tanks are polyethylene. FRP fiberglass brine tanks are available as options.

OPTIONS



ST-DA Optional Galvanized Face Pipe **ST-DA Standard Sched(80) PVC**

- Optional controls are designed for multiple tank systems. Systems can be set up using alternating vessels, regeneration lockouts, lead-lag systems. 2 tank system with turbine meter for alternating regeneration. Optional system Controls 2+ tanks operated in parallel with turbine meter on each. When one dealkalizer goes into regeneration, a lockout is sent to prevent simultaneous regeneration of other dealkalizers.
- Systems can be skid mounted.
- Face piping material options include, galvanized, PVC, CPVC and copper.
- Hot water option available on ST-P units for water temperatures of up to 180°F.
- Optional Top and Side Mount valve controls available. (Valve nest units shown)

APPLICATIONS

Single or multiple **ST-DA Series** dealkalizers are ideal for any large commercial or industrial application such as factories, mills, dye houses, boilers, cooling towers, ice houses, or any other applications where a truly heavy duty unit is needed.

FLOW RATES AND CAPACITIES

Model	Pipe Size	Flow Rate GPM Serv. / BW	Ft ³ Resin /Unit	Capacity In KGR		Resin Tank			Brine Tank		
				Alkalinity	Sulfate	Dia.	X	Ht.	Dia.	X	Ht.
ST- 300 -ALK-2	2"	20 / 12	10	90	144	24"	X	60"	22"	X	36"
ST- 450 -ALK-2	2"	30 / 18	15	135	216	30"	X	60"	36"	X	48"
ST- 750 -ALK-3	3"	50 / 30	25	225	360	36"	X	60"	42"	X	48"
ST- 900 -ALK-3	3"	60 / 36	30	270	432	42"	X	60"	48"	X	48"
ST- 1350 -ALK-4	4"	90 / 54	45	405	648	48"	X	60"	52"	X	60"
ST- 2400 -ALK-4	4"	160 / 96	80	720	1,152	60"	X	72"	52"	X	60"
ST- 3450 -ALK-6	6"	230 / 138	115	1,035	1,656	72"	X	72"	60"	X	60"

NOTES: Normal design operating pressure is 125 psi. Units are available with working pressures of up to 300 psi. Normal maximum inlet temperature is 90°F. Minimum inlet pressure is 35 psi. Maximum chlorine or other oxidizer content is 0.5 ppm.

Warranty: All ST-P and DA water dealkalizers are backed by a 1-year warranty. All warranties are for parts and factory labor only, barring misuse or abuse. Warranties are specifically limited to the repair or replacement of the equipment. (Please see: Terms and conditions)

Cal-Water has been selling, installing and servicing water purification equipment since **1946**.

Cal Water, 1961 Petra Lane, Placentia, CA 92870
(800) CAL-WATER (800) 225-9283
 FAX: (714) 792-0794
 Web Page / Email: www.cal-water.com

Orange County (714) 835-7878
 Los Angeles County (323) 663-8335
 San Diego County (858) 457-8411