

# DA SERIES

## DEALKALIZERS

WCC's "DA" Series dealkalizers feature 1" – 3" service connections, heavy duty electronic control valves, fiberglass-reinforced mineral tanks and long-lasting synthetic anion resin that is specifically tailored for the reduction of alkalinity (carbonates, bicarbonates, and sulfates). This series is particularly suited to swimming pool pre-treatment, cooling system makeup water, scale prevention in boilers/heat exchangers, and general improvement in water taste/potability. Available options include single, twin, triplex, and quad systems, as well as 5 – 8 tank "XL" configurations. Steel resin tanks, progressive service, and Accu-Pipe pre-piped skid systems are also available.



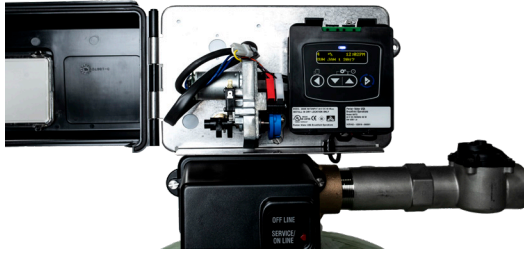
### SPECIFICATIONS

Model Series Number	Exchange Capacity (equivalent grains of CaCO3)*	Cv	Max Flow Rate (GPM)	PSID @ Max Flow Rate	Pipe Size (in)		Back Wash (GPM)	Media (cu ft)	Brine Tank Capacity (lbs)	Regen Time (min)	Tank Size (in)		Approx Ship Weight (lbs)
					Service Connection	Drain Size					Resin	Salt	
DAE-12	10200	4.89	12	6	1	3/4	1.7	2	250	54	12 X 52	18 X 33	173
DAE-14	16575	6.32	20	10	1	3/4	2.4	3.25	225	62	14 X 65	18 X 33	282
DAE-16	22950	7.49	27	13	1	3/4	3	4.5	200	70	16 X 65	18 X 33	348
DAE-18	28050	8.52	33	15	1	3/4	4	5.5	200	77	18 X 65	18 X 33	424
DAE-21	35700	9.64	42	19	1	3/4	6	7	175	87	21 X 62	18 X 33	584
DAS-12	10200	4.24	12	8	1	3/4	1.7	2	250	49	12 X 52	18 X 33	189
DAS-14	16575	5.00	20	16	1	3/4	2.4	3.25	225	55	14 X 65	18 X 33	298
DAS-16	22950	5.51	27	24	1	3/4	3	4.5	200	60	16 X 65	18 X 33	363
DAM-12	10200	4.89	12	6	1.5	3/4	1.7	2	250	49	12 X 52	18 X 33	171
DAM-14	16575	6.32	20	10	1.5	3/4	2.4	3.25	225	55	14 X 65	18 X 33	280
DAM-16	22950	7.49	27	13	1.5	3/4	3	4.5	200	60	16 X 65	18 X 33	345
DAM-18	28050	8.52	33	15	1.5	3/4	4	5.5	200	65	18 X 65	18 X 33	422
DAM-21	35700	9.64	42	19	1.5	3/4	6	7	175	72	21 X 62	18 X 33	582
DAL-14	16575	7.07	20	8	2	3/4	2.4	3.25	225	56	14 X 65	18 X 33	313
DAL-16	20400	9.07	24	7	2	3/4	3	4	225	60	16 X 65	18 X 33	354
DAL-18	28050	11.00	33	9	2	3/4	4	5.5	200	67	18 X 65	18 X 33	455
DAL-21	35700	14.00	42	9	2	3/4	6	7	175	75	21 X 62	18 X 33	615
DAL-24	51000	17.32	60	12	2	3/4	8	10	625	90	24 X 72	24 X 50	793
DAL-30	76500	21.21	90	18	2	1	12	15	550	114	30 X 72	24 X 50	1247
DAXL-24	51000	21.21	60	8	3	1	7	10	625	48	24 X 72	24 X 50	907
DAXL-30	76500	30.00	90	9	3	1	12	15	550	51	0 X 72	24 X 50	1327
DAXL-36	112200	39.80	132	11	3	2	20	22	475	56	36 X 72	24 X 50	1890
DAXL-42	153000	46.48	180	15	3	2	25	30	725	62	42 X 72	30 X 50	2496
DAXL-48	178500	52.50	210	16	3	2	30	35	1,400	65	48 X 72	39 X 48	2951

- FOR TWIN TANK, TRIPLEX AND QUAD SYSTEMS, CV RATINGS, EXCHANGE CAPACITIES, FLOW RATES AND RESIN QUANTITIES SHOULD BE DOUBLED, TRIPLED OR QUADRUPLED RESPECTIVELY.

\* Calculating dealkalizer exchange capacity needed requires mg/l concentrations of total alkalinity, chloride, sulfate, total hardness, and TDS. By converting these levels into equivalent grains of CaCO3, WCC can estimate overall system capacity requirements. Contact WCC for more details.

- Inlet water hardness not to exceed 10 grains per gallon. If hardness exceeds this level, water should be pre-softened prior to dealkalization in order to avoid calcium precipitation/fouling.



## ADVANCED CONTROLLER

- Real-time diagnostics  
Flow rates, totalizer, capacity, average usage, alarm history, and more
- Remote input for forced regeneration and regeneration lockout
- 2 programmable relays for auxiliary equipment, BAS indication, remote alarms, etc.

**WITH OVER 50 YEARS OF EXPERIENCE IN THE WATER CONDITIONING AND PLUMBING INDUSTRIES**, WCC CAN DESIGN AND MANUFACTURE EQUIPMENT FOR VIRTUALLY ANY APPLICATION. WE OFFER A COMPLETE MENU OF SERVICES, INCLUDING WATER TESTING, SYSTEM SIZING, BIM MODELING (REVIT®), DELIVERY, SETUP, STARTUP, AND AFTER-MARKET SERVICE PLANS. WE MAINTAIN A UNIQUE FOCUS ON MECHANICAL ENGINEERS, CONTRACTORS, AND THE PLUMBING INDUSTRY. DEPEND ON US TO PROVIDE QUALITY, INNOVATIVE SOLUTIONS FOR ALL YOUR COMMERCIAL WATER CONDITIONING NEEDS.

## HOW TO SPECIFY “DA” SERIES DEALKALIZERS:

### ORDER CODE:

### MODEL (from other side)

### SYSTEM SIZE

- Single Tank:
- Two Tank:
- Three Tank:
- Four Tank:

- SIMPLEX (MR)
- TWIN
- TRIPLEX
- QUAD

**NOTE:** 5-8 Tank “XL” systems available. Contact WCC for details.

### Additional Options: (check options below)

- Progressive Service: Adds and removes tanks from service, based on flow demand
- Steel Tank(s) (optional ASME Rating)
- Accu-Pipe Skid-Mounted System (pre-plumbed\*, pre-wired system, mounted on heavy-duty powder-coated steel skid)
- Accu-Pipe LS: Same as Accu-Pipe System, less skid base (piping/wiring only)
- Brine Silo (large volume salt storage / brine generation & delivery system)
- Salt Sock and Access Door (lockable) for blow-in salt delivery

\*Standard piping is grooved, type L copper, other materials available

\*For a detailed, model-specific specification, please contact Water Control Corporation. Detailed drawings also available upon request (CAD® or Revit®).

Dealkalizer system requires a minimum inlet water pressure of 30 psig and maximum of 120 psig. If resin tank is subject to vacuum, an adequate vacuum relief valve must be properly installed. Tank warranty is void if subjected to vacuum. Feed water temperature shall be between 40°F and 100°F. Each control valve requires a 120 volt wall outlet (2-prong, 1.3FLA, 60Hz).



CONTACT YOUR LOCAL  
SALES REPRESENTATIVE

To find your authorized WCC representative,  
please visit: [www.watercontrolinc.com/  
representative-locator/](http://www.watercontrolinc.com/representative-locator/).



VISIT US ONLINE

Go to [www.watercontrolinc.com](http://www.watercontrolinc.com), where  
you'll find detailed product specification  
info and application design questionnaires.



SPEAK DIRECTLY WITH ONE OF  
WCC'S DESIGN ENGINEERS

Call 1-866-405-1268 or email  
[techsupport@watercontrolinc.com](mailto:techsupport@watercontrolinc.com).

*We look forward to working with you!*

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