

BIC Mixed-Bed Deionizers

AMBD
Series

AMBD FEATURE

- Automatic Mixed-Bed "Package" Deionizers are available in sizes from 10-100 GPM, and at rated exchange capacities of 43,000 to 403,000 grains. These systems are fully-assembled, skid mounted, with all wiring and tubing completed requiring minimum installation and start-up effort. Only first quality components are used in their manufacture.
- Exchanger vessels are all-steel construction, rated at 75-100 psi, vinyl ester lined, with manholes, and flanged connections.
- Piping is Schedule 80 PVC, with solvent-welded joints, rigidly supported on steel framework.
- Valves - plastic diaphragm type, pneumatically operated, with integral travel stops for flow regulation.
- Internal distributions are Schedule 80 PVC of the hub, and radial lateral design. Bottom and interface are designed for resin retention. Interface lateral is 316 stainless steel.
- Resins are high capacity, strong acid cation, regenerated with 6# HCl/cu. Ft., And type I porous strong-base anion, regenerated with 8# NaOH/cu. Ft.
- The Solid-State Control System is fully programmable with relay outputs coupled to individual air solenoids for pneumatic valve actuation, system also includes continuous digital readout of step in progress and time remaining, panel-mounted conductivity monitor/controller with provision for pushbutton automatic or fully automation operation. Also incorporates battery back-up system to prevent loss of program memory due to power failure. Controller is housed in a NEMA-12 cabinet.
- Included are stainless steel liquid filled pressure gauges, sample valves, flow indicator on water inlet, backwash sight glass and inlet pressure reducing



AVAILABLE OPTIONS

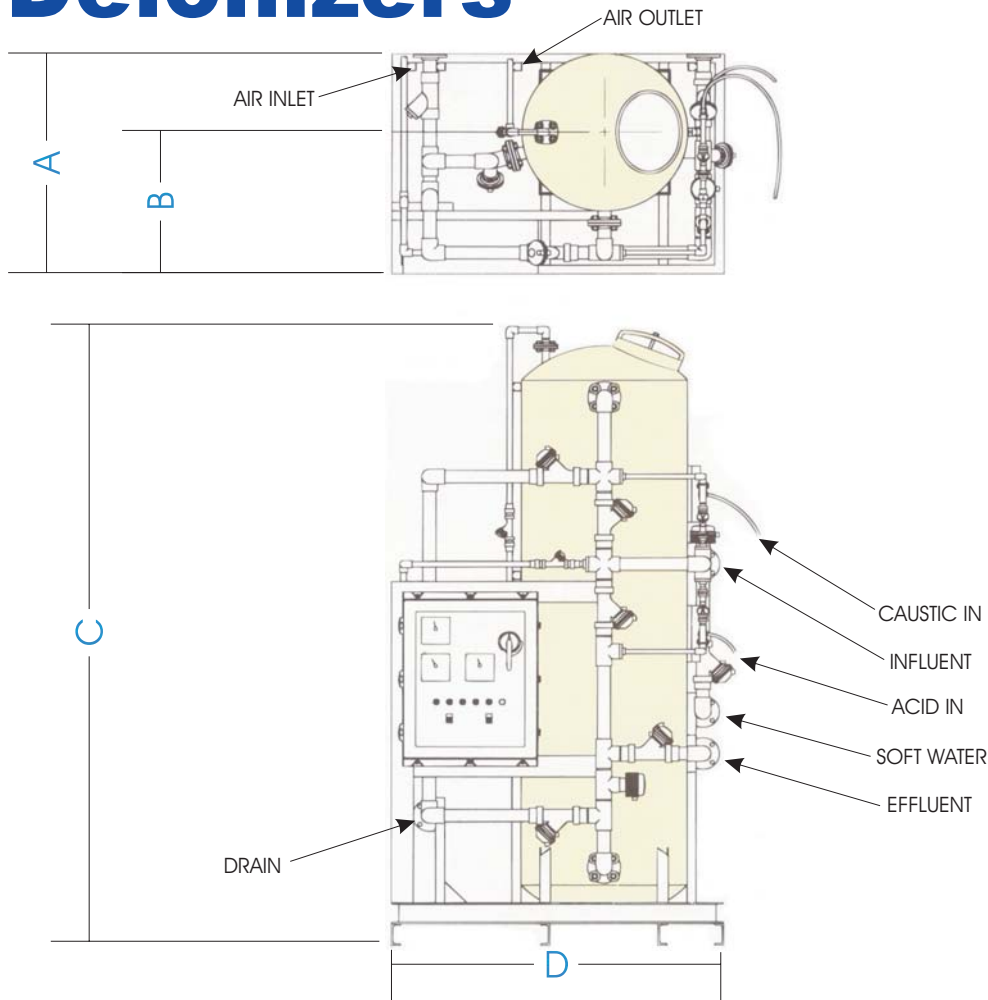
- Duplex System for Continuous Alternating unip Operation
- Automatic Recirculation
- Flow Totalization
- ASME Code Pressure Vessels
- Pumped Regeneration System
- NEMA-4 Cabinet



BIC Wastewater And Water Treatment

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Model	Flow (GPM ¹)	Capacity (kilograins ²)	Tank Size (in.)	Pressure Rating (psi)	Pipe Size (in.)	Acid Tank Size ³ (in.)	Caustic Tank Size ³ (in.)	Cation Resin	Anion Resin	A ⁴ x B x C x D (in.)	Shipping Weight (lbs.)
AM BD-1696	9 - 19	43	16 x 96	75	1	15 x 21	22 x 36	2	3.2	44 x 21 x 112 x 54	1,400
AM BD-2096	20 - 32	68	20 x 96	75	1	15 x 21	22 x 36	3.2	5	52 x 23 x 112 x 65	1,700
AM BD-2496	33 - 47	100	24 x 96	75	1 1/2	18 x 29	28 x 42	4.5	7.5	56 x 25 x 112 x 66	2,000
AM BD-3096	48 - 75	158	30 x 96	100	2	22 x 36	31 x 48	7.5	11.5	73 x 26 x 120 x 75	3,000
AM BD-3696	76 - 94	224	36 x 96	100	2	24 x 48	36 x 48	10.5	16.5	83 x 29 x 120 x 83	4,000
AM BD-4296	95 - 140	307	42 x 96	100	2 1/2	28 x 42	42 x 48	14.5	22.5	96 x 31 x 120 x 95	5,500
AM BD-4896	141 - 188	403	48 x 96	100	2 1/2	31 x 48	48 x 48	19	29.5	102 x 37 x 124 x 114	7,200

1 Maximum flow rate is based on approximately 15GPM/sq. Ft.

2 Nominal capacity based on assumed typical water analysis.

3 Acid and Caustic tank are optional items not supplied as standard equipment.

4 With chemicals storage tank.

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