

BIC Two-Bed Deionizers

ASBD Series

ASBD FEATURE

- Two-Bed Automatic "Package" Deionizers are available in sizes from 10-100 GPM, and at rated exchange capacities of 107,000 to 860,000 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, rigidly supported, where required.
- Resins are high capacity, strong acid cation, regenerated with 6# HCl/cu. Ft., And strong-base, Type II anion, regenerated with 6# 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, and inlet pressure reducing valve.

AVAILABLE OPTIONS

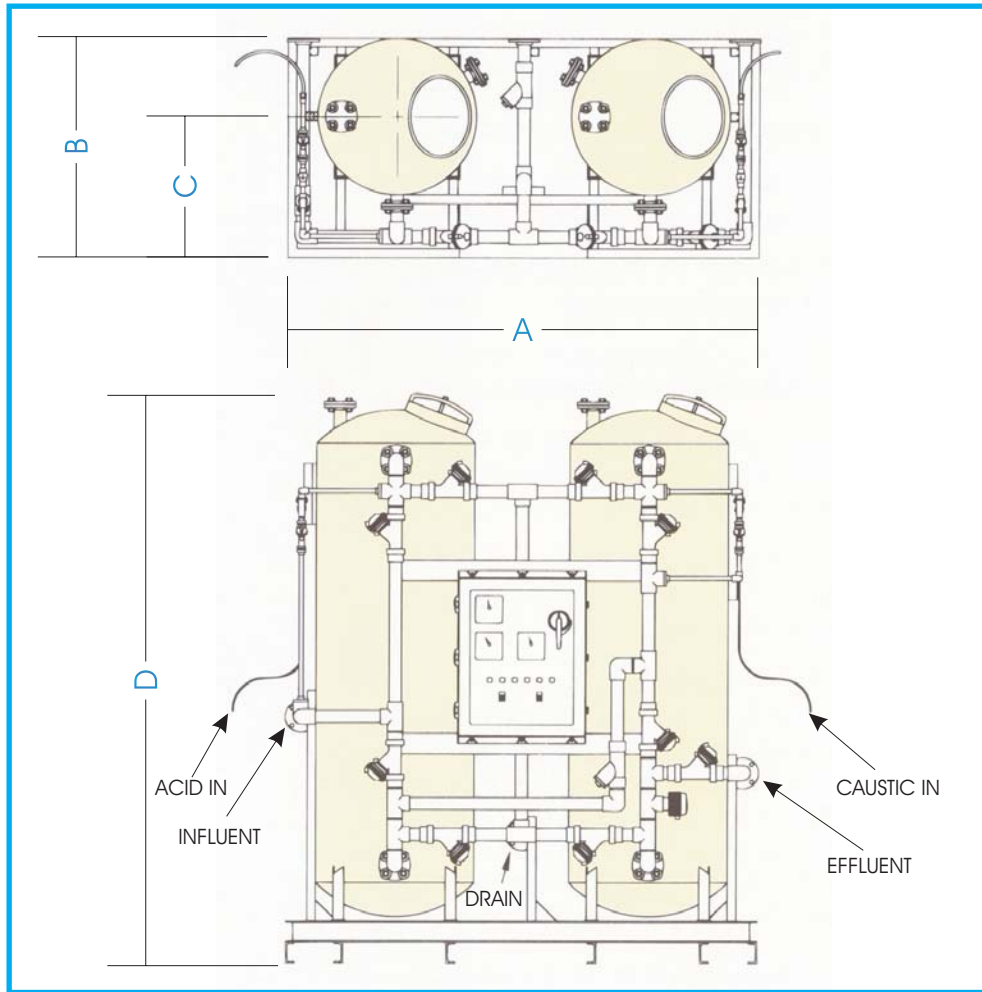
- Duplex System for Continuous Alternating unip Operation
- Automatic Recirculation
- Flow Totalization
- ASME Code Pressure Vessels
- Pumped Regeneration System
- NEMA-4 Cabinet



BIC Water and Wastewater 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.)
ASBD-1684	9 - 15	107	16 x 84	75	1	18 x 29	22 x 36	5	6	108 x 33 x 21 x 100	1,800
ASBD-2084	16 - 25	143	20 x 84	75	1	18 x 29	22 x 36	7	8	116 x 37 x 23x 100	2,200
ASBD-2484	26 - 34	215	24 x 84	100	1 1/2	22 x 36	24 x 48	11	12	130 x 41 x 25 x 108	3,500
ASBD-3084	35 - 55	340	30 x 84	100	2	24 x 48	31 x 48	17	19	139 x 45 x 27 x 109	5,000
ASBD-3684	56 - 83	483	36 x 84	100	2	31 x 48	36 x 48	24	27	163 x 50 x 29 x 112	7,500
ASBD-4284	84 - 103	660	42 x 84	100	2 1/2	31 x 48	42 x 48	33	37	175 x 56 x 32 x 114	10,500
ASBD-4884	104 - 138	860	48 x 84	100	2 1/2	42 x 48	48 x 48	43	48	204 x 66 x 37 x 116	12,500

1 Maximum flow rate is based on approximately 11 GPM/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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