

INDION® New Generation

Two Bed Deionisers with Degasser Tower

INDION Industrial Two Bed Upflow Deionisers

Type CA & CDA units meet the requirements of producing small quantities of demineralised water. Available in a wide range with maximum flow rates from 1.0 to 15.0 m³/h. Flow rates can be enhanced to 35 m³/h by installing two or more units in parallel.

Type CA units consists of a cation unit incorporating a strong acid cation exchanger and an anion unit incorporating a strong base anion exchanger. Both cation and anion units are made of fibre glass reinforced plastic (FRP)/ glass reinforced plastic (GRP). Type CDA units include a degasser for treating high alkalinity waters.



Features

- The units are free standing, compact and are easy to install and maintain
- Complete with equipment for regeneration of ion exchange resins
- All parts of the unit are of plastic construction, corrosion resistant and practically requires no maintenance
- Units are modular in construction enabling easy capacity enhancement

Applications

- All applications like laboratory and metal plating units requiring small quantities of demineralised water

Average Treated Water Quality

- pH : 7.5 – 9.5
- Conductivity at 25°C : 10-30 µS/cm
- Reactive silica : 0.5 mg/l as SiO₂

Specifications (CA units)

- Two FRP /GRP pressure vessels are used and provided with internal fittings and initial charge of cation and anion exchange resins
- One set of regeneration equipment including hydraulic ejectors, acid and alkali tank
- One set of frontal pipework and valves
- One base frame (optional) for mounting cation and anion units
- One conductivity meter to monitor treated water quality

Specifications (CDA units)

CDA units includes the following in addition to the above

- One atmospheric degasser filled with ball rings
- One air blower
- One degassed water tank of low density Polyethylene
- One degassed water pump
- One lot of Interconnecting piping and valves

Technical Specification

Cation/ Anion

Model		Inlet/ Outlet Connections	Dimensions		Flow Rate		Working Pressure		Regenerants	
			Vessel Dia	Vessel (Height)	Min.	Max.	Min.	Max.	Cation	Anion
Cation	Anion		mm	mm	mm	m ³ /h	m ³ /h	Kg/cm ² g	Kg/cm ² g	Hydrochloric Acid 30% w/v
AC SQ 1	NGSBA SQ 1	32	335	1388	0.25	2.5	2.0	3.5	20	13
AC SQ 2	NGSBA SQ 2	32	362	1659	0.25	2.5	2.0	3.5	27	17
AC SQ 3	NGSBA SQ 3	32	400	1671	0.35	3.5	2.0	3.5	40	25
AC SQ 4	NGSBA SQ 4	50	475	2060	0.50	6.0	2.0	3.5	53	33
AC SQ 5	NGSBA SQ 5	50	552	1735	0.60	6.0	2.0	3.5	67	42
AC SQ 6	NGSBA SQ 6	50	610	2163	0.75	7.5	2.0	3.5	107	67
AC SQ 7	NGSBA SQ 7	63	770	2336	3.0	10.0	2.0	3.5	167	104
AC SQ 8	NGSBA SQ 8	63	927	2281	3.0	15.0	2.0	3.5	240	150

Degasser

Model	FRP Degasser Tower				Blower		LLDPE Degasser Water Tank			
	Degasser Tower		Flow Rate	Type of Packing MOC	Qty	Flow Rate	Motor	Water Tank Capacity	Pump Capacity	Motor
	Dia mm	Height mm	m ³ /hr	Pall Rings PP	m ³	m ³ /min	H.P		m ³ /hr	H.P
NGDGS 20	200	1500	2		0.05	1	0.5	500	2	0.85
NGDGS 25	250	1500	3		0.075	1	0.5	500	4	1.4
NGDGS 30	300	1500	4		0.1	1.4	0.5	500	4	1.4
NGDGS 35	350	1500	6		0.15	1.4	0.5	500	6	2.5

Note: Feed water should be free from turbidity, organic matter, heavy metals, free residual chlorine and oil & grease.

Please furnish a detailed mineral analysis to confirm the output between regeneration (OBR) from the ion exchange unit.

Regenerant effluent required to be bulked and neutralized prior to disposal.

To the best of our knowledge the information contained in this publication is accurate. Ion Exchange (India) Ltd. maintains a policy of continuous development and reserves the right to amend the information given herein without notice. Please contact our regional/branch offices for current product specifications.

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ION EXCHANGE (INDIA) LTD.

Corporate Office

Ion House, Dr. E. Moses Road, Mahalaxmi,
Mumbai - 400011 | Tel: +91 22 6231 2000
E-mail: ieil@ionexchange.co.in

Regional and Branch Offices

Bengaluru | Bhubaneswar | Chandigarh | Chennai
Delhi | Hyderabad | Kolkata | Lucknow | Vadodara
Vashi | Visakhapatnam

International Division

R-14, T.T.C MIDC, Thane - Belapur Road, Rabale,
Navi Mumbai - 400 701 | Tel: +91 22 6857 2400
E-mail: export.sales@ionexchange.co.in

Overseas Offices

Bangladesh | Canada | Indonesia | Kenya
Malaysia | Oman | Portugal | Saudi Arabia | Singapore
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India - Ankleshwar | Hosur | Patancheru | Rabale | Verna | Wada

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