

INDION® New Generation Two Bed Deionisers with Degasser Tower

INDION New Generation Two Bed Deionisers Type CA & CDA units meet the requirements of producing small quantities of demineralised water. These units are available in a wide range of flow rates from 1.0 to 15.0 m³/h, which can further be enhanced to 35 m³/h by installing two or more units in parallel.

CA units consist of a Strong Acid Cation (SAC) exchanger and an anion unit incorporating a Strong Base Anion (SBA) exchanger. Both cation and anion units are made of Fibreglass Reinforced Plastic (FRP)/ Glass Reinforced Plastic (GRP). CDA units include a degasser for treating high alkalinity water apart from SAC & SBA.

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

Features

- The units are free-standing, compact, easy to install and maintain
- Complete with equipment required for regeneration of ion exchange resins
- The material of construction is FRP/GRP, enabling effective corrosion resistance & low maintenance
- Modular units, enabling easy capacity enhancement

Specifications (CDA units)

CDA units include the following in addition to the above

- Atmospheric degasser filled with pall rings
- Air blower
- Degassed water tank of low-density polyethylene
- Degassed water pump
- Interconnecting piping and valves



Specifications (CA units)

- Two FRP /GRP pressure vessels are used and provided with internal fittings and initial charge of cation and anion exchange resins
- Regeneration equipment which includes hydraulic ejectors, acid and alkali tank
- Frontal pipework and valves
- The base frame (optional) for mounting cation and anion units
- Conductivity meter to monitor treated water quality

Technical Specifications

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 100% w/v	Sodium Hydroxide 100% w/v
NGSAC SQ 1	NGSBA SQ 1	32	335	1388	0.25	2.5	2.0	3.5	6	6
NGSAC SQ 2	NGSBA SQ 2	32	362	1659	0.25	2.5	2.0	3.5	8	8
NGSAC SQ 3	NGSBA SQ 3	32	400	1671	0.35	3.5	2.0	3.5	12	12
NGSAC SQ 4	NGSBA SQ 4	50	475	2060	0.50	6.0	2.0	3.5	16	16
NGSAC SQ 5	NGSBA SQ 5	50	552	1735	0.60	6.0	2.0	3.5	20	20
NGSAC SQ 6	NGSBA SQ 6	50	610	2336	0.75	7.5	2.0	3.5	32	32
NGSAC SQ 7	NGSBA SQ 7	63	770	2336	3.0	10.0	2.0	3.5	50	50
NGSAC SQ 8	NGSBA SQ 8	63	927	2236	3.0	15.0	2.0	3.5	72	72

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 /h	Pall Rings PP	m ³	m ³ /min	H.P		m ³ /h	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 is required to be bulked and neutralized before 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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