ION EXCHANGE
Refreshing the Planet

# INDION® DEIOMATIC

INDION Deiomatic produces demineralized water at flow rates upto 500 litres per hour. It is easy to install and economical to operate. The design is the outcome of many years of experience in manufacturing deionisers to meet the specific needs of several industries.

The units are made of corrosion resistant materials of construction - pressure valves in Fibre Reinforced Plastic (FRP), plastic pipes, plastic coated stands and FRP skids.

When the capacity of the ion exchange resin is exhausted, it is regenerated: the cation exchanger with dilute hydrochloric acid and the anion exchanger with caustic soda solution. The units are pre-assembled and tested before dispatch and are easy to install.


## Features

- Portable and can be moved to points of use
- Separate regeneration unit
- Auto regeneration based on quality or operating hours between regeneration
- Continuous monitoring of treated water quality
- Corrosion resistant material of construction (MOC)

## Applications

- Laboratory and research institutes
- Electroplating shops and mirror silvering
- Pharmaceuticals and chemical synthesis.

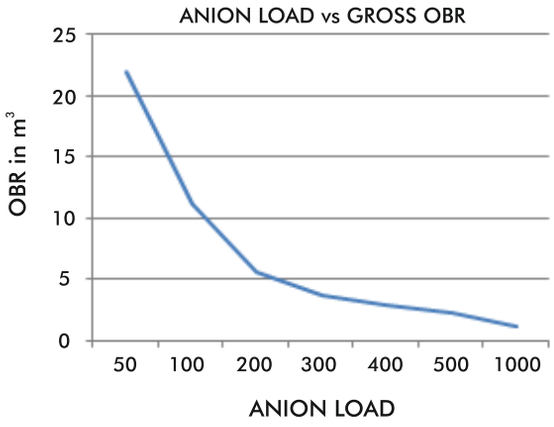
## Benefits

- Conductivity of the treated water is less than 30 $\mu$S/cm
- The unit can control both service pump and regeneration pump
- Audible alarm to take preventive action
- Less regeneration time(quantify) for both cation and anion units
- Consistent water outlet quality

# Technical Specification

| Model | Flow rate | Flow pressure | Regenerants | | Treated Water Quality | |
|---|---|---|---|---|---|---|
| CA-50 | Maximum | Maximum | Hydrochloric acid 32% | Sodium Hydroxide 100% | Electrical Conductivity at 25° C | pH |
| | L/h | $Kg/cm^2$ | Liters | Kg | $\mu s/cm$ | |
| | 500 | 3 | 11 | 2.8 | Less than 30 | 7.5 to 9 |

## Capacity Curve




### Gross output between regeneration (OBR) graph

Anion load = EMA + Total alkalinity + silica

EMA= Cl + $SO_4$ + $NO_3$ as $CaCO_3$

### Note:

1. Feed water should be free from turbidity, organic matter, heavy metals, free chlorine and oil. Design parameters should be based at 25
2. Output between regenerations will vary with influent feed water quality



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