

# **INDION® QUENCHER**



A tailor-made innovation for Industries & Institutions



Ion Exchange pioneered water treatment in India and is today Asia's largest water and environment solutions provider, with a strong global presence. Among few companies worldwide with the entire range of technologies, processes, products and services, we are able to provide total water and environment management for every sector - industrial, institutional, municipal, household, urban and rural.

Our water and environment solutions extend far beyond industrial horizons, to provide safe drinking water and clean environment to hotels, educational institutions, hospitals, office canteens and trainings centers, railways and defense establishments.

**INDION® QUENCHER**, a new innovation from Ion Exchange, is a compact unit for purification and bottling of drinking water. It uses hygienically stored and disinfected recyclable glass bottles and is a great sustainable replacement for plastic.

## Features

- INDION QUENCHER includes an easy to operate manual glass bottle washing and rinsing zone, followed by a calibrated water filling and capping zone. The processing zone comes with an SS sanitary finish to meet the hygiene levels of the plant
- The unit serves as an in-house facility for bottling of drinking water using recyclable glass bottles and is a great replacement for plastic for the hospitality industry
- It also incorporates a zone specific air sanitizing facility to secure the bottling environment from air borne bacteria and fungi
- Accessories provided include gloves, hairnet box & Bactaslyde® quick test kit

## Advantages

- The entire system is housed within a compact foot print of 1.45 m x 1.7 m x 1.8 m
- Easy to install kiosk kit
- An in-situ silver ionization process that keeps the water processing loops sanitized 24X7
- Water purification process comprising of RO, mineralization and silver ionization ensuring highest purity standards
- Uses pure RO water for bottle rinsing and also recycles this precious rinse water for reuse thereby maximizing water savings
- Greater hygiene control with sanitizer cabinet for intermediate bottle storage / movement
- Options for choosing bottle capping method
- User friendly access to interiors of the bottling kiosk for easy servicing

## Bottle Sanitizer Cabinet

### Features

- Ensures Hygienic storage and UV disinfection of rinsed bottles
- Dual door batch operation ensures uninterrupted production
- Controlled UV exposure for complete disinfection of bottles
- Two way travel slider trays for ease of access to bottles
- Inbuilt safety against undesired UV exposure to operators
- Capacity to disinfect 60 bottles per batch





## Environmental Sustainability

- Minimized water wastage - High recovery RO process and rinse water recycling saves 70% water as compared to conventional processes
- Does not need managing the remains of plastic bottles
- Chemical free CIP (Clean in Place) sanitizing process keeps the water loops sanitized and is eco-friendly

## General Specifications

|                          |                                                              |
|--------------------------|--------------------------------------------------------------|
| <b>Operating Voltage</b> | 230 VAC, 50 Hz                                               |
| <b>Power Consumption</b> | 1 KW (Typical for 150 BPH operation @ 500ml bottles)         |
| <b>Water Consumption</b> | 195 Litres (Typical for a 150 BPH operation @ 500ml bottles) |

## Bottling Plant Specifications

|                          |                                   |
|--------------------------|-----------------------------------|
| <b>Unit Size (Meter)</b> | 1.45 m x 1.7 m x 1.8 m            |
| <b>Type of Operation</b> | Manual / Semi Automatic           |
| <b>Capacity (BPH)</b>    | 150 max / 500ml bottles           |
| <b>Filling Volumes</b>   | Adjustable 100 – 1000 ml          |
| <b>Brushing Heads</b>    | 2                                 |
| <b>Washing Heads</b>     | 6                                 |
| <b>Filling Heads</b>     | 2                                 |
| <b>Capping Type</b>      | Lug cap / Ring pull cap – 1 point |

## Water Purification Specifications

|                                    |                                                                                   |
|------------------------------------|-----------------------------------------------------------------------------------|
| <b>Purification Stages</b>         | Sediment Filtration, Activated Carbon Filtration, Reverse Osmosis, Mineralization |
| <b>Hydraulic Loop Sanitization</b> | ESS based silver ionization                                                       |
| <b>RO Water Recovery</b>           | 70 - 80%                                                                          |
| <b>Rinse Water Recovery</b>        | Upto 60 - 70 %                                                                    |
| <b>Residual Protection</b>         | Silver ionization                                                                 |
| <b>Overall Water Savings</b>       | Upto 70%                                                                          |
| <b>Source Water Specification</b>  | TDS 1200 max Fe, Mn, Si, O&G - Nil                                                |

INDION QUENCHER houses a water purification system that produces water meeting Indian and USEPA drinking water standards.

## Accessories

|                                           |                                                  |
|-------------------------------------------|--------------------------------------------------|
| <b>Hair Net, Dust Mask and Gloves Box</b> | As essentials for bottling hygiene               |
| <b>Bactaslyde® Quick Test Kit</b>         | For quick microbial analysis of water potability |
| <b>Bottle Trolleys (Optional)</b>         | For transportation of bottles                    |
| <b>Bottle Disinfection Cabinet</b>        | For disinfection of rinsed bottles               |

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.

**INDION® QUENCHER** is the registered trademark of Ion Exchange (India) Ltd.



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