

Refreshing the Planet

INDION®
LAB-Q
WATER MAKER



**Instant pure &
ultra pure water
for multiple lab
applications!**



Available in 3 Models of type I, II, III Water

Introduction

Ion Exchange (India) Limited pioneered water treatment in India and today it is one of Asia's largest water and environment management solutions provider with a strong global presence. With over 53 years of expertise we are able to provide full spectrum of solutions for every sector - Industries, Hotels, Homes, Offices and Communities.

Backed by state-of-the-art application laboratory, R&D centre, customer support service centres and ISO 9001 and 14001 manufacturing facilities; we offer a wide range of technologies, processes and products that only few companies in the world can provide.

Ion Exchange latest introduction **INDION LAB Q WATER MAKER** series for producing different grades of pure water for laboratory applications, instantly. Pure & ultra pure water is essential for creating chemical reagents, microbiological buffers, media, as feed water for laboratory equipment, etc

INDION Lab Q product series is a multipurpose water purification system & available in following variants

Lab Q Ultra - Type I Water

Lab Q Smart - Type II Water

Lab Q water maker - Type III Water

**PURE &
ULTRA
PURE
WATER
FOR LABS**



Laser cutting machine



Diamond cutting machine



Water for battery inverter



Gas chromatography



Tissue culture labs



Molecular biology

Say goodbye to glass distillation:



Water Maker

Clinical, pharmaceutical and research laboratories require laboratory grade distilled water or equivalent quality water that consistently meets stringent water standards. Water below a desired quality not only affects the chemistry of the test conducted but also damages the instruments, which in turn, reduces the reliability of the test and also increases calibration time and reagent cost.

INDION Lab-Q Water Maker is easy to install and has several built-in safety features for reliable and consistent water supply for purified laboratory grade water.

Features

- Online conductivity meter - displays product water quality for continuous monitoring
- Automatic flush device (AFD) - ensures periodic cleaning of the filter system
- Dry run protection - ensures protection of the pump when inlet water is unavailable
- Optional filtration - can be attached at the point of dispensing spout to ensure compliance to microbial reduction values

Advantages

- Provides an efficient alternative to buying and storing laboratory grade distilled water
- Compact and portable counter top model ensures optimal use of lab space
- Low operating cost
- Requires minimum maintenance

Applications

- Feed for Type I water maker
- Accessory for random access auto analyzers
- For reagent preparations and washing
- Instrumental analysis
- Pharmaceutical industry
- Heating baths and biomedical applications

Water for:

- Inverter batteries
- Centerless grinding machine for precious metal
- Wire cut machine
- Coolant in automobiles industries
- Centerless grinding machine
- Diamond cutting machine
- Laser cut machine



Get every lab water solution



Type I Water Maker

A Multipurpose Water Maker

Lab Q Ultra water maker produces Type I ultrapure water and Type II pure water simultaneously. The produced water has very low total organic carbon (TOC) content, meeting the requirements of liquid chromatography and all spectroscopy methods, besides microbiological and molecular biology applications. It also meets ISO 3696, Type I standards. Dispensing of ultrapure water is configured on the front panel whereas pure water is dispensed from the storage tank. For feed water with higher level of TDS i.e. > 500 ppm a customised pretreatment module can be designed prior to INDION Lab Q Ultra.

Features

- Online resistivity meter - displays product water quality for continuous monitoring
- Automatic flush device (AFD) - ensures periodic cleaning of the filter system
- Integrated recirculation system - ensures consistent quality of water and reduces TOC to low levels (2-5 ppb)
- Dry run protection - ensures protection of the pump when the inlet water is unavailable
- Optional point-of-use filter - ensures compliance to microbial reduction values
- Optional flexible dispensing - remote water dispenser offers dispensing at various angles and height
- Electrolytic auto sanitiser - ensures periodic sanitisation of upstream purifying filters
- High purity storage tank - a built-in UV, protective air filter and high grade tank material ensures sustained purity while in storage

Advantages

- Works on tap water as source
- Compact and portable counter top model
- Low operating cost which requires minimum maintenance

Applications

- Gas chromatography
- All spectroscopy methods
- Enzyme immunoassays
- HPLC (High performance liquid chromatography)
- ICP (Inductively coupled plasma)
- AAS (Atomic absorption spectro photometer)
- Clinical research
- Inorganic trace analysis
- Buffer and media preparation
- Molecular biology
- Microbiological techniques
- DNA microarrays



Sterile Storage Tank

instantly



Type II Water Maker

INDION Lab Q Smart (Type II) water maker produces pure water which is essential for creating chemical reagents, microbiological buffers and media that are consistently pure. It is an excellent source of water for glassware washing and as feed water for laboratory equipment such as autoclaves, laboratory dishwashers and water baths. It is also a recommended source of pretreated water for use in Type I ultrapure systems. It produces water with very low total organic carbon (TOC) content and conforms to ISO 3696 and corresponding ASTM standards. Potable tap water can be directly connected to INDION Lab Q Smart to produce Type II pure water. It is easy to install and has several built-in safety features for reliable and consistent Type II water supply. For feed water with higher level of TDS i.e. > 500 ppm a customised pretreatment module can be designed prior to INDION Lab Q Smart.

Features

- Online resistivity meter - displays product water quality for continuous monitoring
- Automatic flush device (AFD) - ensure periodic cleaning of the system
- Dry run protection - ensures protection of the pump when inlet water is unavailable
- Easy accessibility of components - all cartridges and filters are easily accessible and no special tool is required to replace them
- Simple installation - simple to install, operate and maintain with a clear indication of water purity
- Easy to dispense pure water
- Electrolytic auto sanitiser - ensures periodic sanitisation of upstream purifying filters
- Optional filtration - filter can be attached at the point of dispensing spout to ensure compliance to microbial reduction values
- Optional flexible dispensing - remote water dispenser offers dispensing at various angles and height

Advantages

- Tap water as source
- Compact and portable counter top model ensures optimal use of space
- Low operating cost
- Requires minimum maintenance

Applications

- Flame spectrometry
- Electrochemistry
- Sample dilution
- Radioimmunoassay
- Electrophoresis
- General chemistry
- Feed for Type I water maker
- Feed for clinical analyzers
- Preparation of media and buffer
- Autoclave and water bath



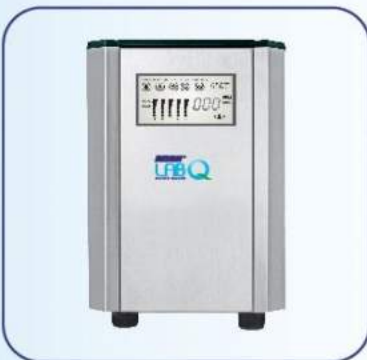


Point of Use Capsule Filter

- At the point of dispensing a 0.22 micron membrane filter eliminate particles and bacterial contamination which may interfere with specific application

Pre Filter Modules

- 10" pre treatment module contains sediment filter & activated carbon filter, which removes particulate matter and chlorine thereby enhancing the life of internal components



Pre Filter RO

- In case of higher TDS above 500 PPM, specially customized designed RO can be fitted to make the water more clear & thereby enhancing the life of internal components

Hollow fibre UF filter

- Effectively filters out endotoxin, proteins and particles bacteria
- High flow rate and low pressure drops
- Quick rinse up in ultrapure water
- Can be autoclaved



Contamination Free Water Tank

- 5 different water level sensors
- Recirculation pump
- UV lamp and vent filter to maintain consistent purity of stored water
- Overflow protection tube to eliminate the risk of flooding
- PE material ensure low extractives
- Tank available in 30 & 60 liters



UV lamp for water tank



Vent filter



30 L Tank

60 L Tank

Premium Water Delivery

- Remote water dispensing units are placed in a recirculation loop and can be located up to three meters from the main unit
- Dispensers are designed to accommodate all commonly used glassware



LAB-Q ULTRA Type - I

Feed Water Specifications	TDS	500 PPM MAX
	Fe, Mn	NIL
	Free Chlorine	NIL
	Silica	< 20 PPM
	Inlet Pressure	0.5 - 2.0 Kg/cm ²
Product Water Specifications	Product Flow to Storage Tank	10 ltr/hr.
	Dispensing Flow	1-1.5 ltr/hr.
	Pure Water Resistivity (Type I)	18.2 MΩ
	Pure Water Conductivity (Type I)	0.055 Microsiemens/cm
	Pure Water Resistivity (Type II)	> 10 MΩ
	Pure Water Conductivity (Type II)	< 0.1 Microsiemens/cm
	Endotoxin Level	< 0.001 EU/ml
	Particle > 0.22 μm	< 1 per ml
	Bacteria	< 0.1 cfu/ml
	Total Organic Carbon (TOC)	< 5 ppb

LAB-Q SMART Type - II

Feed Water Specifications	TDS	500 PPM MAX
	Fe, Mn	NIL
	Free Chlorine	NIL
	Silica	< 20 PPM
	Inlet Pressure	0.5 - 2.0 Kg/cm ²
Product Water Specifications	Product Flow	10 ltr/hr.
	Pure Water Resistivity (Type II)	> 10 MΩ
	Pure Water Conductivity (Type II)	< 0.1 Microsiemens/cm
	Endotoxin Level	< 0.25 EU/ml
	Particle > 0.22 μm	< 1 per ml
	Bacteria	< 1cfu/ml
	Total Organic Carbon (TOC)	< 30 ppb

LAB-Q Type - III

Feed Water Specifications	TDS	500 PPM MAX
	Fe, Mn	NIL
	Free Chlorine	NIL
	Silica	< 20 PPM
	Inlet Pressure	0.5 - 2.0 Kg/cm ²
Product Water Specifications	Product Flow	10 ltr/hr.
	Pure Water Conductivity	<1 Microsiemens/cm
	Pure Water Resistivity	>1 MΩ
	Turbidity	< 1 NTU
	Total Organic Carbon (TOC)	< 200 ppb

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.

For feed water with higher level of TDS > 500 PPM a customised pre treatment can be designed prior to Indion Lab Q TDC for feed water should be less than 3 PPM.

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