ION EXCHANGE
Refreshing the Planet

INDION® LAB-Q SMART
WATER MAKER

Type II Water Maker

Ion Exchange with over five decades of experience in innovative total water management solutions, presents INDION Lab-Q Smart (Type II) Water Maker. It 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 ultra pure 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.

10 LPH

50 LPH

Features

- Online resistivity meter - displays product water quality for continuous monitoring
- Automatic Flush Device (AFD) - ensures 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
- Instant water dispensing with single touch user interface
- 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

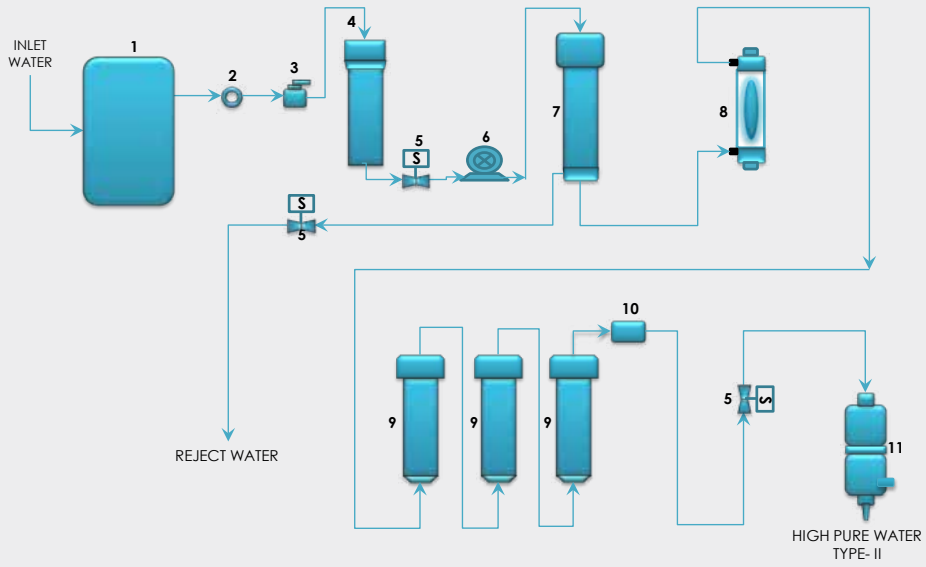
Advantages

• Tap water as source • Compact • Low operating cost • Minimum maintenance

Applications

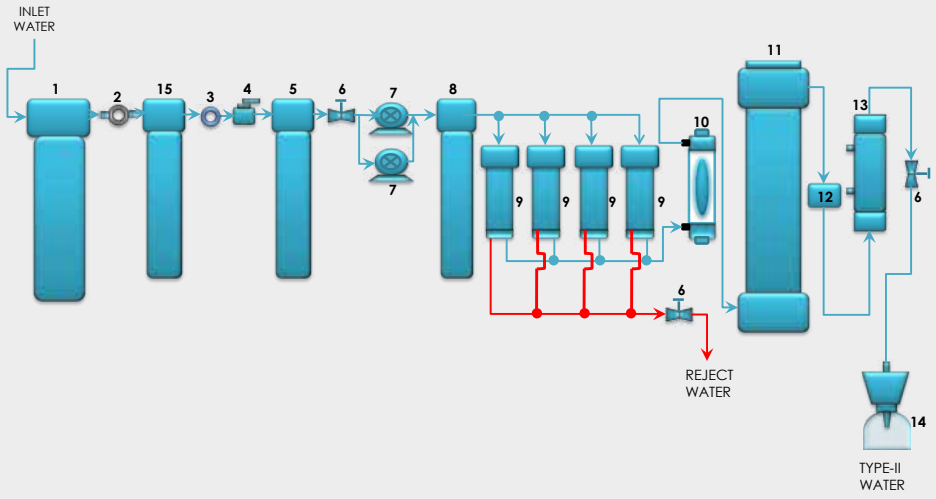
• Flame spectrometry • Electrochemistry • Sample dilution • Radioimmunoassay Electrophoresis
• General chemistry Feed for Type I water maker • Feed for clinical analysers • Preparation of media & buffer • Autoclave & water bath

Flow Schematic for INDION Lab-Q Smart – 10 LPH



1 Lab-Q Pre-treat
2 Sanitizing Cell
3 Low Pressure Switch
4 Lab-Q Clear Filter
5 Solenoid Valve (TLC,AFT,DISP)
6 Booster Pump
7 Lab-Q RO Membrane
8 Lab-Q UV-18
9 Lab-Q Super Cartridge
10 Resistivity Sensor
11 Point of Use Disp UF Filter

Flow Schematic of Indion Lab-Q Smart Type-II-50 LPH



1 20" Big Blue Sediment Filter
2 Water Meter
3 Sanitizing Cell
4 Low Pressure Switch
5 Lab-Q 20" Sediment Filter
6 Solenoid Valve
7 Booster Pump-48VDC
8 Lab-Q 20" Activated Carbon Filter
9 Lab-Q RO -100 GPD
10 UV-18 50L
11 Lab-Q Super-50L Cartridge (Pack of 4)
12 Resistivity Sensor
13 UF Filter-50L
14 Capsule Filter 0.22μ
15 Lab-Q 20" Super Sorb Filter

Feed Water Specifications

Configuration	10 LPH	50 LPH
TDS	500 ppm max.	
Fe, Mn	Nil	
Free chlorine	Nil	
Silica	< 20 ppm	
Inlet pressure	0.5 - 2 .0 Kg/cm2	Min 0.5 kg/cm2 Max 2.0 kg/cm2

Product Specifications

Configuration	10 LPH	50 LPH
Dimensions W x D x H (in mm)	450 X 250 X 500	390 X 740 X 720
Weight	13 kg	40 kg
Power Requirement	230 VAC ± 10%	
Power Consumption	40 Watts	250 Watts

Performance Parameters

Flow Rate	10 LPH	50 LPH
Resistivity (Grade II)	> 10 MΩ.cm	
Conductivity (Grade II)	< 0.1 μS/cm	
Endotoxin level*	< 0.25 EU/ml	
Particle > 0.22 μm*	< 1 per ml	
Bacteria*	< 0.1 cfu/ml	< 10 cfu/100ml
Total organic carbon (TOC)*	< 30 ppb	

*Performance parameters achieved when water dispensed through final point of use 0.22 µ

*The Product water of LAB Q Smart Confirms to CLSI Type I and Type II water

*TOC values achieved with feed water of less than 2000 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 I branch offices for current product specifications.

INDION® LAB-Q WATER MAKER is the registered trademark of Ion Exchange (India) Ltd.

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