

INDION[®]
LAB-Q ULTRA
WATER MAKER

EDI based Type 2 & Type I Water Maker

Ion Exchange with over five decades of experience in providing innovative total water management solutions presents INDION Lab-Q Ultra a multipurpose water maker. It produces Type I ultrapure water and Type 2 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 1 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

- Self generating EDI based ten step purification process
- Online resistivity monitoring for product water quality
- Automatic Flush Device (AFD) for periodic RO cleaning
- Dry run protection with feed pressure switch
- Option of 30 & 60 liter reservoir with air vent filter
- Integrated UV sanitization module for reservoir
- Easy dispensing with one touch user interface
- ESS : In built electrolytic auto sanitizer avoids chemical sanitization

Advantages - Electropure EDI

- Thin-Cell Technology - This allows quality and higher efficiency
- Thin-Concentrate Technology - This design keeps the membrane surface clean and prevents fouling and scaling
- Non-fouling Electrode Technology - A proprietary design prevents scaling in the electrodes. It also uses a special anode technology to limit the production of chlorine, which lengthens the life of the EDI module

Applications - Type 2 Water

- Feed to polishing unit, autoclave, stability chambers, humidifiers and gas generators
- General glassware washing rinsing
- Used in place of purified water
- Media preparation
- Dissolution and dilution
- Buffer preparation
- Chemical and Biochemical reagent preparation

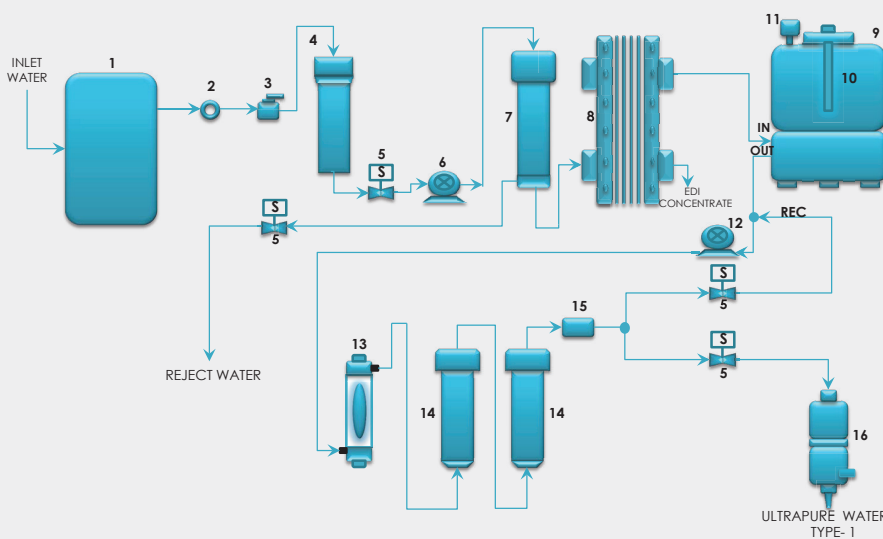
Applications - Type 1 Water

- **Analytical** - HPLC, GC, IC, ICP OES, ICP MS, LCMS, AA, TOC
- **Life Science** - Genomics, Proteomics Immunology, Pharmacology, Cell & Tissue culture, Drug discovery



Now EDI for Every Lab

Schematic Flow Chart for INDION Lab-Q Ultra - 10 LPH (with EDI)



- 1 Lab-Q Pre-Treat
- 2 Sanitization Cell
- 3 Low Pressure Switch
- 4 Lab-Q Clear Filter
- 5 Solenoid Valve
- 6 Booster Pump
- 7 Lab-Q RO Membrane
- 8 Lab-Q EDI Module
- 9 Water Tank-60 LTR
- 10 UV LAMP-254 NM For Tank
- 11 Air Filter
- 12 Recirculating Pump
- 13 Lab-Q UV-18
- 14 Lab-Q Super Cartridge
- 15 Resistivity Sensor
- 16 POU Dispensing UF Filter

Feed Water Specifications

Configuration	10 LPH
TDS	500 ppm max.
Fe, Mn	Nil
Free Chlorine	Nil
Silica	<20 ppm
Inlet Pressure	Min 0.5 kg/cm ² & Max 2.0 kg/cm ²

Product Specifications

Configuration	10 LPH
Dimensions W x D x H (in mm)	450 x 250 x 500
Weight	13 kg
Power Requirement	230 VAC ± 10%
Power Consumption	80 Watts

Product Water Specifications

	ASTM Type 2 Water	ASTM Type 1 Water
Flow rate	10 LPH	1 - 1.5 l/min
Conductivity	<0.1 μ S/cm	0.054 μ S/cm
Resistivity	10 M Ω .cm	18.2 M Ω .cm
Total Organic Carbon (TOC)	<30 ppb	<5 ppb*
Endotoxin Level	NA	<0.25 Eu/ml
Particle > 0.22 μ m	NA	< 1 per ml
Bacteria	NA	<1 cfu/ml

* TOC values achieved with feed water of less than 50 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.



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Manufacturing Units

India - Ankleshwar | Hosur | Patancheru | Rabale | Verna | Wada

Overseas - Hamriyah | Indonesia | Bangladesh

All India Service and Dealer Network

www.ionindia.com | www.labwater.in

