

Type 2 & 1 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 1 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

- Online resistivity metre - displays product water quality for continuous monitoring
- Automatic Flush Device (AFD) - ensures periodic cleaning of the system
- Integrated recirculation system - ensures consistent water quality & reduces TOC to low levels (2-5 ppb)
- Dry run protection - ensures protection of the pump when the inlet water is unavailable
- Instant water dispensing with single touch user interface
- Produces Type 2 and Type 1 water from a single integrated unit to meet varied laboratory applications
- Option of 30 & 60 liter reservoir to meet daily usage
- Easy dispensing with one touch user interface
- High purity storage tank - a built-in UV, protective air filter and high grade tank material ensures sustained purity while in storage

Advantages

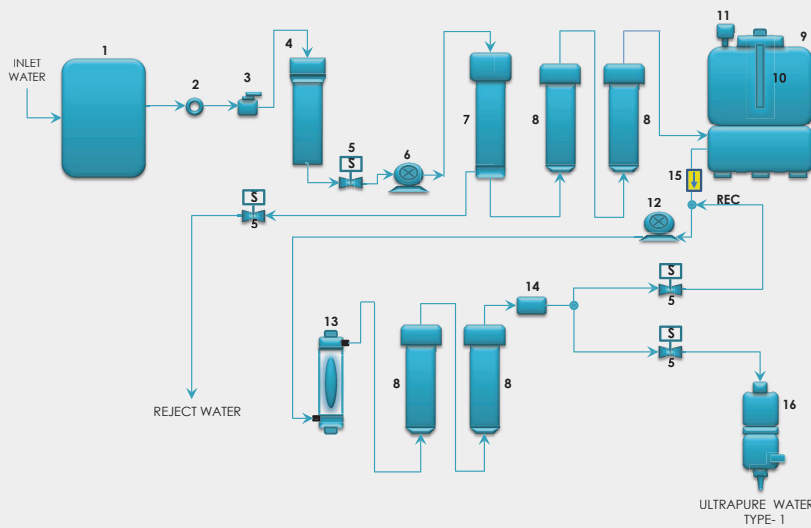
- Tap water as source
- Compact & portable counter top model
- Low operating cost
- Minimum maintenance

Applications

- High Performance Liquid Chromatography (HPLC)
- Inductively coupled plasma (ICP)
- Atomic absorption spectrophotometer (AAS)
- Gas chromatography
- All spectroscopy methods
- Enzyme immunoassays
- Clinical Research
- Inorganic trace analysis
- Buffer and media preparation
- Molecular biology
- Microbiological techniques



Schematic Flow Chart for INDION Lab-Q Ultra - 10 LPH



- 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 Super Cartridge
- 9 Water Tank
- 10 UV LAMP-254 NM for Tank
- 11 Air Filter
- 12 Recirculating Pump
- 13 Lab-Q UV-18
- 14 RESISTIVITY SENSOR
- 15 NRV
- 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
Storage Tank W x D x H (in mm)	300 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 μS/cm	0.054 μS/cm
Resistivity	10 MΩ.cm	18.2 MΩ.cm
Total Organic Carbon (TOC)	<30 ppb	<5 ppb*
Endotoxin Level	NA	<0.25 Eu/ml
Particle > 0.22 μm	NA	< 1 per ml
Bacteria	NA	<1 cfu/ml

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

* 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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