

# Water Purification System

## ULTRA- Series (Type I and II)



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

## ►► Application

- Biochemical analysis of chemical reagents;
- Buffer conventional physical and chemical detection;
- Physical and chemical testing and other conventional qualitative and quantitative analysis
- High performance liquid chromatography (HPLC);
- Plasma emission spectroscopy (ICP) and other instrumental analysis
- Organic and inorganic trace analysis
- Molecular biology
- Microbiology
- PCR analysis
- Cell culture
- Cell and cultivation medium preparation
- Monoclonal antibody production
- Gel electrophoresis analysis
- Feed water: Potable tap water: TDS<1000ppm, 5-40°C, 1.0~5.0Kg/cm<sup>2</sup>
- ICP-MS (Inductively Coupled Plasma Mass Spectrometry)
- GFAAS (Graphite Furnace Atomic Absorption Spectrophotometry)
- ICP-AES (Inductively Coupled Plasma Atomic Emission Spectrometry)
- AAS (Atomic Absorption Spectrophotometry) Buffer and media preparation Electrophysiology

## ►► Features

- It is the most representative products in lab water market.
- PLC auto controlling system and LED display.
- 2 way flow sensor, achieve quantified dispensing of ultrapure water
- System circulation function through recirculation pump, achieve ultrapure water's circulation to keep top quality of ultrapure water
- All Cartridges replacing alarm function, based on time, or water quality, show cartridges' used and residual life.
- Multiple alarm light display function for feed water, full water, water quality's standard exceeding, and cartridge life ending
- 50 Liter capacity blow molded flat bottom PE reservoir water tank with flow sensor switch with a vent filter to resist aerobent contamination consisting with 0.65micron filter, activated carbon and soda-lime for the removal of particulates, CO<sub>2</sub>, N<sub>2</sub> etc.
- Whole plastic shell with high-strength, avoid rusting and keep clean, to meet GLP standard.
- Tube and adapter with NSF authorization and top quality, reduce TOC level and assure ultrapure water's quality.
- Optimized pretreatment (including PP fiber, active carbon cartridge, softening resin, and 0.22 micron filter), effectively protect RO membrane
- RO module with DOW's membrane, ensure long life, stable operation and high desalinization rate.
- ultrapure cartridge with DOW's top polishing resin
- A final ultra-pure water purification system to produce TYPE I connected with the tank.
- Three-way solenoid valve (SOV) to manage product water dispensing.
- Operating Pressure : 1 to 6 bar
- UV Lamp(optional)
- Touchscreen (Optional)

## ►► Technical Data

Output (Tank is empty, 25°C)	10/ 20/ 40 / 60 Liter/hour
Flow rate (Tank is full)	2 liter/min
UP water resistivity	18.25MΩcm@25°C
Heavy metal ion	<0.1ppb
TOC	<3ppb
Microbe (Bacteria)	<0.1CFU/ml
Particles(>0.2 μm)	<1/ml
RNases	<0.003ng/ml
DNases	<0.4pg/ μl
Outlet	UP water
RO water Quality	Ion rejection rate: >98% (New RO membrane) Organic
Rejection rate	99%, Particles and bacteria rejection rate: >99%
Device Dimension/weight	540 x 290 x 380 mm / 10 Kg
Electric supply	220V,50/60Hz, 50W
Working Condition	Good
Environmental temperature	5°C~45°C
Relative humidity	20%~80%
Tank Storage	5 / 10 / 20 / 30 / 50 / 100 Liter

## HPLC Servicing, Validation, Trainings and Preventive Maintenance :

**HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

**Trainings** :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

**AMC's/CMC** :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

**Validations** :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

**Instruments** :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



## About Analytical Technologies

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## Our Products & Technologies



LCMS



Maldi TOF



Optima Gas  
Chromatograph



Flash  
Chromatograph



DAC  
Column



GCMS  
3068



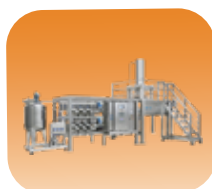
UHPLC



HPTLC



Ion Chromatograph



Production  
HPLC



HPLC



Column



DLS



Water purification  
system

## ▶▶▶ Regulatory compliances



## ▶▶▶ Corporate Social Responsibility

ANALYTICAL FOUNDATION is a Nonprofit Organization (NGO) for the purpose of:



# Analytical Foundation

1. Research & Innovation **Scientist's awards & International Conference visit sponsorship / QC Professional Awards:** Quality life is possible by innovation only and the innovation is possible by research only, hence **ANALYTICAL FOUNDATION** is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research /testing/ publication at [info@analyticalfoundation.org](mailto:info@analyticalfoundation.org)

2. Improving quality of life by offering **YOGA Training courses, Work shops / Seminars** etc.

3. **ANALYTICAL FOUNDATION** aims to DETOXIFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Naturecure, Health Care, Ara, Events, Camps etc.

▶▶ A portion of profit of **ANALYTICAL GROUP** Company's goes into **ANALYTICAL FOUNDATION** for the above noble cause.

## ▶▶▶ Reach us @



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HPLC Solutions

MultipleLabs

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Analytical Foundation (Trust)

**Corporate & Regd. Office:**  
Analytical House, # E67 & E68,  
Ravi Park, Vasna Road, Baroda,  
Gujarat 390 015. INDIA

T: +91 265 2253620  
+91 265 2252839  
+91 265 2252370  
F: +91 265 2254395

E :- [info@analyticalgroup.net](mailto:info@analyticalgroup.net)  
[info@hplctechnologies.com](mailto:info@hplctechnologies.com)  
[info@multiplelabs.com](mailto:info@multiplelabs.com)

W:- [www.analyticalgroup.net](http://www.analyticalgroup.net)  
[www.hplctechnologies.com](http://www.hplctechnologies.com)  
[www.multiplelabs.com](http://www.multiplelabs.com)

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