

# Water Purification System

## Ultra™ - 3000 EDI TOC



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

**Analytical Technologies Limited**

An ISO 9001 Certified Company

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

The newest pure and ultrapure water system with maximum features, convenience and performance. This is the essence of know-hows and experience of Adrona engineers obtained during the decades. Choose between 3 configurations to fit all specific laboratory needs.

- New prefilter with significantly higher trapping capability
- Improved RO and deioniser lifetime
- Stable output water quality
- Convenient flexible dispenser
- Sanitisation cartridge available
- Configuration with EDI or conventional deionisation
- Inbuilt function for the measurement and display for all important water parameters including TOC and Conductivity and resistivity
- System comes with 254nm UV lamp to remove the bacterial count in store water



### ►► **Pre-treatment:**

Pretreatment including 5 and 1 micron filters and activated carbon cartridge.

### ►► **Pure (Type II) water:**

- Resistivity : 5-15 MΩ•cm at 25°C
- Particulates (< 0.22 µm) : < 1 per ml
- TOC : < 30 ppb
- Bacteria : < 1 cfu/1 mL

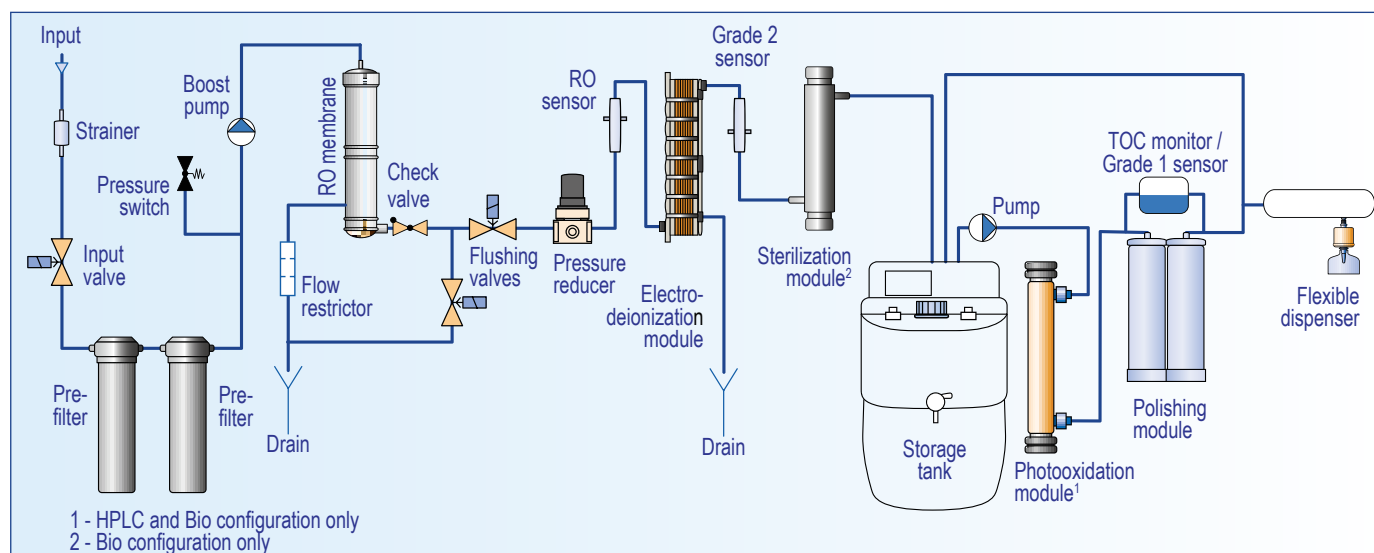
### ►► **Description:**

	EDI Trace	EDI HPLC	EDI Bio
<b>Water type</b>	<ul style="list-style-type: none"> <li>• Ultrapure water (Grade1)</li> <li>• Pure water (Grade 2)</li> </ul>	<ul style="list-style-type: none"> <li>• Ultrapure water (Grade1)</li> <li>• Pure water (Grade 2)</li> </ul>	<ul style="list-style-type: none"> <li>• Ultrapure water (Grade1)</li> <li>• Pure water (Grade 2)</li> </ul>
<b>Application</b>	<ul style="list-style-type: none"> <li>• atomic absorption spectrometry</li> <li>• plasma optical emission spectrometry</li> <li>• other inorganic trace analysis</li> </ul>	<ul style="list-style-type: none"> <li>• chromatography/UV</li> <li>• mass spectrometry</li> <li>• microbiology</li> <li>• molecular biology</li> </ul>	<ul style="list-style-type: none"> <li>• highly sensitive molecular biology</li> <li>• cell culture</li> <li>• other methods sensitive to RNase and endotoxins</li> <li>• biology applications</li> </ul>
<b>Display</b>	Colour Graphic LCD display		
<b>Water quality sensor</b>	•	•	•
<b>TOC Monitor</b>	•	•	•
<b>Measurement validation port</b>	•	•	•
<b>Volumetric dispense</b>	•	•	•
<b>Dispenser</b>	Attached flexible dispenser	Attached flexible dispenser	Attached flexible dispenser
<b>Storage tank</b>	tank "Pro" 50 L included with auto cut-off Tank level sensor with dispensing tap, other tanks optional		
<b>Installation</b>	installable on a laboratory bench		

## ►► Specification:

Purified water parameters	Ultra™ - 3000 EDI TOC System Configuration		
	EDI-TOC Trace	EDI-TOC HPLC	EDI-TOC Bio
Grade 1 water resistivity	18.2 MΩ x cm	18.2 MΩ x cm at 25°C	18.2 MΩ x cm
Grade 1 water conductivity	0.055 μS/cm	0.055 μS/cm	0.055 μS/cm
Grade 2 water conductivity	0.1 μS/cm	0.1 μS/cm	0.1 μS/cm
Total Organic Carbon (TOC) level	<30 ppb	<5 ppb	<1 ppb
Production Flow Rate	≥15 L/h		
RNase	-	-	<0.01 ng/mL
DNase	-	-	<4 pg/μL
Bacteria	< 1 CFU/mL	< 1 CFU/mL	< 0.1 CFU /mL
Endotoxins	<0.15 EU /mL	<0.001EU /mL	< 0.001 EU /mL
Flow Rate	≥1.5 L/min		
Particles >0.22 μm	<1/mL	<1/mL	<1/mL
Ion Rejection rate	>95%		
Organic Rejection rate	>99%		
Deionization module life	1 m <sup>3</sup>	1 m <sup>3</sup>	1 m <sup>3</sup>
Feed water pressure	0,8 – 5 bar	0,8 – 5 bar	0,8 – 5 bar
Feed water type	upto 2000 μS/cm		
Data interface	RS 232	RS 232	RS 232
Dimensions (WxDxH), cm	35x39x54	35x39x54	35x39x54
Weight, kg	27	28	29
Electrical requirement	220-240 V; 50/60 Hz		

## ►► Flow Diagram:



## ►►► Regulatory compliances



## ►►► Corporate Social Responsibility

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



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1. Research & Innovation Scientist's awards / QC Professional Award : 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 DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

4. buy our products and be a part of social cost of analytical foundation.

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