

# E30

E30 water purification system produce ultrapure and pure water for laboratory needs. It is designed for maximum convenience of use and to have maximum features. Is it a system with high price/performance ratio.

## Ordering information

Model	Part number
E30 Trace	CE30-1001
E30 HPLC	CE30-1101
E30 Bio	CE30-1201



## Description

	E30 Trace	E30 HPLC	E30 Bio
Water type	<ul style="list-style-type: none"> <li>ultrapure water (Grade 1)</li> <li>pure water (Grade 2)</li> </ul>	<ul style="list-style-type: none"> <li>ultrapure water (Grade 1)</li> <li>pure water (Grade 2)</li> </ul>	<ul style="list-style-type: none"> <li>ultrapure water (Grade 1)</li> <li>pure water (Grade 2)</li> </ul>
Application	<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</li> <li>mass spectrometry</li> <li>microbiology</li> <li>molecular biology</li> </ul>	highly sensitive biology applications
Display	colour LCD display		
Conductivity sensor	•	•	•
TOC Monitor	-	•	•
Volumetric dispensing	•	•	•
Connection to Flow point	•	•	•
Storage tank	required but not included		
Installation	installable on a laboratory bench		

## Specifications

	E30 Trace	E30 HPLC	E30 Bio
Grade 1 water resistivity at 25 °C	18.2 MΩ x cm	18.2 MΩ x cm	18.2 MΩ x cm
Grade 1 water conductivity at 25 °C	0.055 μS/cm	0.055 μS/cm	0.055 μS/cm
Grade 2 water conductivity at 25 °C	<0.1 μS/cm	<0.1 μS/cm	<0.1 μS/cm
Total Organic Carbon (TOC) level	<10 ppb	<5 ppb*	<5 ppb*
RNase	-	-	<0.01 ng/mL
DNase	-	-	<4 pg/μL
Bacteria	<0.01 CFU/mL	<0.01 CFU/mL	<0.01 CFU/mL
Endotoxins	<0.15 EU/mL	<0.15 EU/mL	<0.001 EU/mL
Particles >0.22 μm	<1 per mL	<1 per mL	<0.05/mL
Nominal flow, pure water (to storage tank)	10 L/h	10 L/h	10 L/h
Dimensions (WxDxH), cm	40x35x55	40x35x55	40x35x55
System weight, kg	17	18	19
Operation weight, kg	24	25	26
Feed water pressure	0.4- 6 bar	0.4- 6 bar	0.4- 6 bar
Feed water conductivity	< 1500 μS/cm	< 1500 μS/cm	< 1500 μS/cm

\* In appropriate operating conditions <2 ppb, otherwise normally <5 ppb.

## Consumables

Part number	Description	Replacement criteria	Comments
10320	Replacement pre-filter	If the filters are clogged or every 6 months	
10310	Replacement deionization module	Grade 2 water conductivity is $> 0.5 \mu\text{m/cm}$ constantly or every 12 months	
10030	Polishing module "Polishing+"	Grade 1 water conductivity is $> 0.1 \mu\text{m/cm}$ constantly or every 12 months	
10017	Replacement sterilization UV bulb	When required (on average every 2 years)	„Bio“ systems only
10018	Replacement photooxidation UV bulb	2 years on average	„HPLC“ and „Bio“ systems only
10013	Replacement $0.22 \mu\text{m}$ dispense microfilter	Every 6–12 months	„Trace“ and „HPLC“ systems
10120	Replacement ultrafilter	Every 3–6 months	„Bio“ systems only

## Flow diagrams

