

INTEGRITY+

The Integrity+ series water purification systems produce ultrapure water for laboratory needs directly from tap water.

The system is most suitable for relatively low ultrapure water consumption up to 15-20 L per day. The Integrity+ series systems have a built-in 5 litre tank to keep the system compact.



Description

	Integrity+ Trace	Integrity+ HPLC	Integrity+ Bio
Water type	ultrapure water (Grade 1)	ultrapure water (Grade 1)	ultrapure water (Grade 1)
Application	<ul style="list-style-type: none"> atomic absorption spectrometry plasma optical emission spectrometry other inorganic trace analysis 	<ul style="list-style-type: none"> chromatography mass spectrometry microbiology molecular biology 	highly sensitive biology applications
Display	colour graphic LCD display		
Conductivity sensor	•	•	•
TOC Monitor	-	•	•
Volumetric dispensing	•	•	•
Storage tank	integrated tank 5L		
Installation	installable either on a laboratory bench or on a wall		

Specifications

Ordering information

Model	Part number
Integrity+ Trace	CB-2101
Integrity+ HPLC	CB-2103
Integrity+ Bio	CB-2105

	Integrity+ system configuration		
	Trace	HPLC	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/mL	<1/mL	<0.05/mL
Dimensions (WxDxH), cm	32x56x62	32x56x62	32x56x62
System weight, kg	24	25	26
Operation weight, kg	32	33	34
Data interface	RS 232	RS 232	RS 232
Feed water pressure	2 – 6 bar	2 – 6 bar	2 – 6 bar

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

Consumables

Part number	Description	Replacement criteria	Comments
10319	Pre-filter set	If the filters are clogged or every 6 months	
10030	Polishing module "Polishing+"	Grade 1 water conductivity is $> 0.1 \mu\text{m}/\text{cm}$ constantly or every 12 months	
10018	UV photooxidation bulb	2 years on average	Only for „Bio“ and „HPLC“
10013	0.22 μm dispense filter	Every 6–12 months	Only for „Trace“ and „HPLC“
10120	Replacement ultrafilter	Every 3–6 months	Only for „Bio“

Flow diagrams

