



B300 & B310

The B300 is a new integrated Grade 2/Grade 1 laboratory water system, replacing the customer-approved previous B30 model.

The B310 is an extended version of the B300, which is designed to produce all types of Grade 2/ Grade 1 and RO laboratory water.

The B310 special feature is the ability to produce large volumes of water at low cost for general laboratory applications – glassware washers, autoclaves, rinsing of laboratory materials, etc. A pressurized tank can be added for RO water storage.

Both systems have completely new electronics and software, providing several additional features:

- large colour touch screen,
- data logging capability,
- warning and alarm messages,
- a wide range of flow control options,
- the ability to connect multiple remote dispensers,
- Ethernet and USB interfaces,
- dispense report preparation,
- improved accuracy of conductivity and TOC measurements.

The systems also include RO water recirculation, which reduces tap water consumption.

Ordering information

Model	Part number
B300 Trace	CB-3301
B300 HPLC	CB-3303
B300 Bio	CB-3305
B310 HPLC	CB-3503
B310 Bio	CB-3505

Consumables

Part number	Description	Replacement criteria	Comments
10319	Pre-filter set	If the filters are clogged or every 6 months	
10311	Deionization Q w/ quick connectors	Grade 2 water conductivity is >0.5 µm/cm constantly or every 12 months	
10031	Polishing Q w/ quick connectors	Grade 1 water conductivity is > 0.1 µm/cm constantly or every 12 months	Depends on water consumption amount
10033	Polishing QC w/ quick connectors	Grade 1 water conductivity is > 0.1 µm/cm constantly or every 12 months	Depends on water consumption amount
10037	Polishing QH w/ quick connectors	Grade 1 water conductivity is > 0.1 µm/cm constantly or every 12 months	Depends on water consumption amount
10017	Sterilization UV bulb	On average – every 2 years	“Bio” configuration
10018	Photooxidation UV bulb	On average – every 2 years	“HPLC” and “Bio” configuration
10013	Replacement 0.22 µm dispense filter	Every 6–12 months	“Trace” and “HPLC” configuration
10120	Replacement ultrafilter	Every 3–6 months	“Bio” configuration

Specifications B300

	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
TOC	< 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/ per mL
Nominal flow to storage tank		10 L/h	
Volumetric dispense		0.01 L to 100 L**	
Dispense rate, ultrapure water	1.5 - 2 L/min	1.5 - 2 L/min	1.5 - 2 L/min
Dimensions (WxDxH), cm	32x56x58	32x56x58	32x56x58
System weight, kg	27	28	29
Operation weight, kg	30	31	32

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

** Depends on the tank volume.

Specifications B310

	HPLC	Bio
Grade 1 water resistivity at 25 °C	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
Grade 2 water conductivity at 25 °C	<0.1 μS/cm	<0.1 μS/cm
TDS rejection rate	≥97%	≥97%
TOC	<5 ppb*	<5 ppb*
RNase	-	< 0.01 ng/mL
DNase	-	< 4 pg/μL
Bacteria	<0.01 CFU/mL	<0.01 CFU/mL
Endotoxins	<0.15 EU/mL	< 0.001 EU/mL
Particles >0.22 μm	<1/ per mL	<0.05/ per mL
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Flow diagrams

