

DATA SHEET

Integrated ultrapure (Grade 1) water and pure (Grade 2) water system **Crystal EX**

Parameters	Trace	HPLC	Bio
Catalogue No.	EX-1001	EX-1101	EX-1201
Package incl. storage tank	EX-1001-P	EX-1101-P	EX-1201-P
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 resistivity at 25 °C	>10 MΩ x cm	>10 MΩ x cm	>10 MΩ x 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	<1/ per mL
Nominal flow, pure water (to storage tank)	10 L/h	10 L/h	10 L/h
Dispense rate, ultrapure water	Up to 1.5 L/min	Up to 1.5 L/min	Up to 1.5 L/min
Recovery	>30%	>30%	>30%
Display	Monochrome LCD	Monochrome LCD	Monochrome LCD
Dispenser	Dispense port	Dispense port	Dispense port
TOC monitor	-	-	-
Temperature range	15–30 °C	15–30 °C	15–30 °C
Relative humidity	20–80%	20–80%	20–80%
Mains voltage	200–240 VAC	200–240 VAC	200–240 VAC
Power	130 W	130 W	130 W
Fuse	230 V, 3.15 A	230 V, 3.15 A	230 V, 3.15 A
Width*Depth*Height	40*35*55 cm	40*35*55 cm	40*35*55 cm
System weight	17 kg	18 kg	19 kg
Operating weight	24 kg	25 kg	26 kg
Tank	Required, not included		

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

\*\*Depends on the tank volume.

**Feedwater properties**

Type of feedwater	Tap water
Feedwater pressure	0.4–4.0 bar
Feedwater conductivity	<1500 μS/cm
Temperature	5–35°C
pH	4–10
Fouling Index	<5
Iron	<0.1 ppm as CaCO <sub>3</sub>
Aluminium	<0.05 ppm as CaCO <sub>3</sub>
Manganese	<0.05 ppm as CaCO <sub>3</sub>
Total chlorine	<1 ppm
Langelier Saturation Index	<+0.2
TOC	<2000 ppb