

DATA SHEET

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

Parameters	Trace	LT	Bio
Catalogue No.	GR-1001	GR-1003	GR-1005
Package incl. storage tank	GR-1001-P	GR-1003-P	GR-1005-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	10.0...5.0 MΩ x cm	10.0...5.0 MΩ x cm	10.0...5.0 MW x cm
Grade 2 water conductivity at 25 °C	0.1...0.2 μS/cm	0.1...0.2 μS/cm	0.1...0.2 μS/cm
TOC	<10 ppb	<3 ppb*	<3 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, pure water (to storage tank)	10 L/h	10 L/h	10 L/h
Volumetric dispense	0.01 - 100 L**		
Adjustable dispense rate	From 2 L/min to drop-by-drop		
Display	7" touchscreen	7" touchscreen	7" touchscreen
Grade1 & Grade 2 dispensers	+	+	+
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	50(33)*45*63 cm	50(33)*45*63 cm	50(33)*45*63 cm
System weight	28 kg	29 kg	30 kg
Operating weight	32 kg	33 kg	34 kg
Tank	Required, not included		

*In appropriate operating conditions <2 ppb, otherwise normally <3 ppb.

**Depends on the tank volume.

Feedwater properties

Type of feedwater	Potable tap water
Feedwater pressure	0.4–6.0 bar
Feedwater conductivity	<2000 μS/cm
Temperature	5–35 °C
pH	4–10
Fouling Index	<10
Iron	<0.1 ppm as CaCO ₃
Aluminium	<0.05 ppm as CaCO ₃
Manganese	<0.05 ppm as CaCO ₃
Total chlorine	<1 ppm
Langelier Saturation Index	<+0.2
TOC	<2000 ppb
Hardness (as CaCO ₃)	<160 ppm