

## DATA SHEET

Integrated ultrapure (Grade 1) water and pure (Grade 2) water system **Q-Front EDI**

Parameters	Trace		HPLC		Bio	
Catalogue No.	QF-4101	QF-4201	QF-4103	QF-4203	QF-4105	QF-4205
Package incl. storage tank	QF-4101-P	QF-4201-P	QF-4103-P	QF-4203-P	QF-4105-P	QF-4205-P
Nominal flow, pure water (to storage tank)	5 l/h	10 l/h	5 l/h	10 l/h	5 l/h	10 l/h
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 ... 5 MΩxcm		≥10 ... 5 MΩxcm		≥10 ... 5 MΩxcm	
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		<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	
Dispense rate, ultrapure water	1.5 - 2 L/min		1.5 - 2 L/min		1.5 - 2 L/min	
Display	Colour LCD		Colour LCD		Colour LCD	
Dispenser	Side mounted		Side mounted		Side mounted	
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	35*39*54 cm		35*39*54 cm		35*39*54 cm	
System weight	27 kg		28 kg		29 kg	
Operating weight	31 kg		32 kg		33 kg	
Tank	Required, not included					

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

### 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 <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
Dissolved CO <sub>2</sub>	<30 ppm