

## 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                        |