

Q-FRONT EDI



Adrona's product Q-Front EDI is a tap water system for general laboratory applications and inorganic analytical methods.

Q-Front EDI systems are intended for use in laboratories with high daily pure and ultrapure water consumption.

Q-Front EDI systems include the flexible dispenser.

Description

| | Q-Front EDI Trace | Q-Front EDI HPLC | Q-Front EDI Bio |
|---------------------------------|--|--|---|
| Q-Front EDI water type | <ul style="list-style-type: none"> ultrapure water (Grade 1) pure water (Grade 2) | <ul style="list-style-type: none"> ultrapure water (Grade 1) pure water (Grade 2) | <ul style="list-style-type: none"> ultrapure water (Grade 1) pure water (Grade 2) |
| Application | <ul style="list-style-type: none"> atomic absorption spectrometry plasma optical emission spectrometry other inorganic trace analysis | <ul style="list-style-type: none"> chromatography mass spectrometry microbiology molecular biology | <ul style="list-style-type: none"> highly sensitive molecular biology cell culture other methods sensitive to RNase and endotoxins biology applications |
| Display | colour graphic LCD display | | |
| Water quality sensor | • | • | • |
| TOC Monitor | - | • | • |
| Volumetric dispense | • | • | • |
| Dispenser | flexible dispenser attached | | |
| Connection to Flow point | • | • | • |
| Storage tank | storage tank required, but not included | | |
| Installation | installable on a laboratory bench | | |

Consumables

| Part number | Description | Replacement criteria | Comments |
|-------------|-------------------------------------|---|----------------------------------|
| 10410 | Replacement pre-filter | If the filters are clogged or every 6 months | |
| 10030 | "Polishing+" module | Grade 1 water conductivity is > 0.1 µm/cm constantly or every 12 months | |
| 10017 | Sterilization UV bulb | 2 years on average | "Bio" configuration |
| 10018 | Photooxidation UV bulb | 2 years on average | "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 |



Ordering information

| Model | Part number |
|----------------------|-------------|
| Q-Front 5 EDI Trace | QF-4101 |
| Q-Front 10 EDI Trace | QF-4201 |
| Q-Front 5 EDI HPLC | QF-4103 |
| Q-Front 10 EDI HPLC | QF-4203 |
| Q-Front 5 EDI Bio | QF-4105 |
| Q-Front 10 EDI Bio | QF-4205 |

Specifications

Q-Front EDI system configuration

| | 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 |
| Total Organic Carbon (TOC) level | <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/mL | <1/mL | <0.05/ per mL |
| Feed water pressure | 0.4 - 6 bar | 0.4 - 6 bar | 0.4 - 6 bar |
| Data interface | RS 232 | RS 232 | RS 232 |
| Dimensions (WxDxH), cm | 35x39x54 | 35x39x54 | 35x39x54 |
| System weight, kg | 27 | 28 | 29 |
| Operation weight, kg | 31 | 32 | 33 |

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

Flow diagram

