Elemental Scientific

prep*FAST*

FiltrationStation
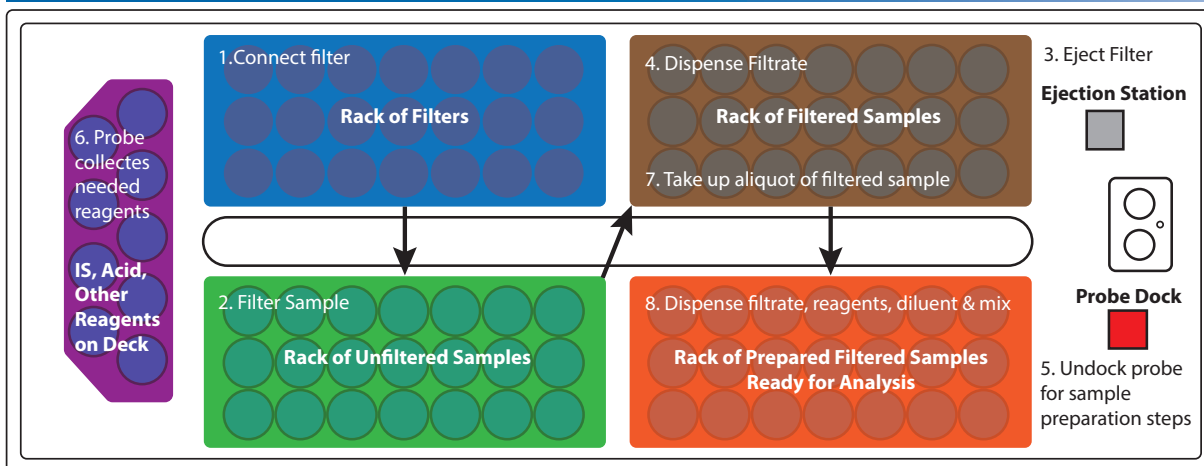
Automated Sample Filtration System

Compact system that frees laboratory staff from repetitive sample filtration and sample preparation tasks

Features & Benefits

- **Automatic Sample Filtration and Preparation**
  - Eliminates tedious manual sample filtering
  - Functions include filtration, acidification, dilution, internal standard addition and mixing

- **Disposable Sampling Filters**
  - 0.45 micron, 0.22 micron, etc.
  - Automated filter pre-cleaning for low blanks

- **Intelligent Touchscreen Control**
  - User-friendly UI with flexible methods
  - Select your filtration method and click start

Unfiltered Samples Are Made Ready for Analysis

6. Probe collectes needed reagents

IS, Acid, Other Reagents on Deck

1. Connect filter

Rack of Filters

2. Filter Sample

Rack of Unfiltered Samples

4. Dispense Filtrate

Rack of Filtered Samples

7. Take up aliquot of filtered sample

8. Dispense filtrate, reagents, diluent & mix

Rack of Prepared Filtered Samples Ready for Analysis

3. Eject Filter

Ejection Station

Probe Dock

5. Undock probe for sample preparation steps

0.45 micron Sampling Filter

FiltrationStation Features

ULPAclean 10 Filter *(Optional)*

- Removes 99.9995% of airborne particles with size of 0.1 μm or larger

Clean3V Enclosure *(Optional)*

- Clean sample environment
- Protects lab from harmful fumes
- Three vertical sliding doors for easy access

AutoAlign Arm

- Self-aligns after encountering capped sample tube

Filter Rack

- 0.45 or 0.22 micron PTFE filters
- Full range of sampling filter options
- 21 or 60 position filter rack options

Reagent Reservoirs

- Accesible 10 L containers (2)

Integrated Touchscreen

- Easy-to-use UI
- Store and access many filtration/prep methods
- Easy customization

Integrated Station Pump

- Rapid and precise dispensing
- Ultra-high purity syringe pump

Dual Rinse Stations

- Ultra-low cross-contamination
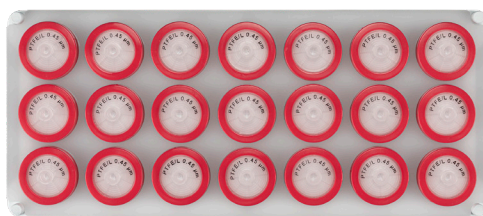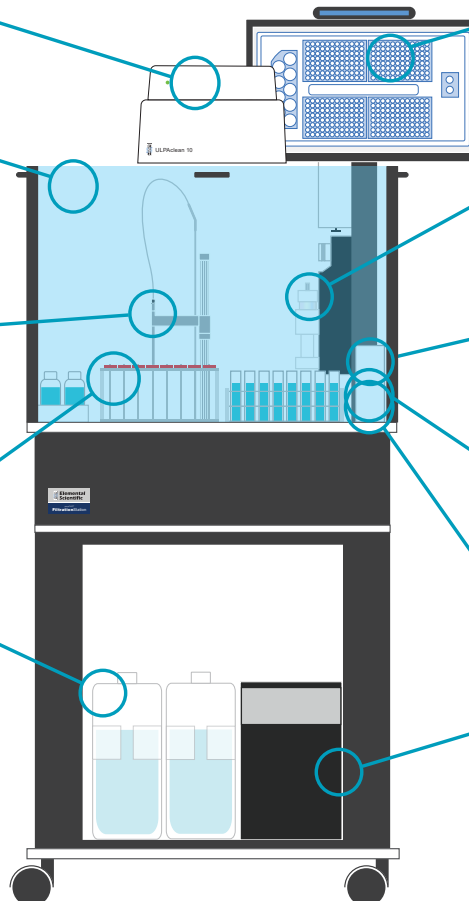- Low rinse consumption

Probe Docking Station

- Demountable sample preparation probe
- Docked during filtration

Filter Ejection Station

- Automatically ejects used filters

Filter Bin

- Collects used filters from the ejection station

FR21 21 Position Filter Rack

FR60 60 Position Filter Rack

FiltrationStation		
FLTSTN4	4DXCi **Filtration**Station	
System Dimensions		
Height	**Width**	**Depth**
1753 mm (69")	889 mm (35")	356 mm (14")