

## Automated Solid Phase Extraction (SPE) Elution Unit

# EL870



### Precision Meets Simplicity

The EL870 is an automated elution system utilized in solid-phase extraction (SPE), which is a sample preparation technique employed in chromatography.

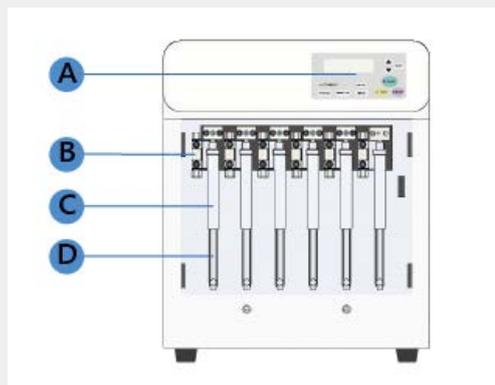
Elution, a critical step in the SPE process, is vital for achieving high-precision analysis. The EL870 enhances efficiency and accuracy through automation and is equipped with a high-precision syringe pump. It also features a user-friendly keypad controller, making operation simple and accessible for users of all skill levels.

### Application

- ✓ Drinking water testing
- ✓ Environmental water testing
- ✓ Atmospheric aldehyde testing
- ✓ Car interior aldehyde testing (VIAQ)
- ✓ Food Testing



## ■ Overview



### A: Display Key and Operation Key

These keys allow you to adjust both the solvent amount and speed.

### B: Check Valve

Responsible for controlling the suction and drainage of solvent into the syringe.

### C: Syringe Barrel

This is a glass syringe barrel with a 5 mL capacity.

### D: Plunger

The syringe plunger is responsible for vertical movement, allowing for precise control.

## ■ Feature

### High Accuracy and Precision

The system is equipped with a 'Soak Mode' a technique designed to ensure a stable recovery rate. This is accomplished by automatically pausing during the elution process to allow the solvent to thoroughly soak the SPE cartridge, enhancing the consistency and reliability of the results.

### Easy of Operation

The system boasts a straightforward, user-friendly interface that simplifies operation, enabling users of all experience levels to operate it with ease. It accommodates both syringe barrel-type and Luer-type SPE cartridges, offering versatility and convenience to meet various laboratory needs.



## ■ Specifications

Model	EL870
Solvent Delivery Method	Pressurization Syringe Pump
Cat. No.	6030-87100
Number of lines	6
SPE Cartridge	Syringe barrel, Luer Compatible Cartridge
Accuracy	Within $\pm 3\%$ (20 °C, 1 mL/min, no output pressure, IPA)
Flow Rate Precision	RSD 2% or less (20 °C, 1 mL/min, no output pressure, IPA)
Flow Rate Range	0.1 - 10.0 mL/min (Up to 20.0 mL/min when flushing)
Minimum Variable Unit	0.1 mL/min
Soak Time Adjustment Range	0.1 - 999.9 min
Soak Volume Adjustment Range	0.1 - 999.9 mL
Sample Loading Time Range	0.1 - 999.9 min
Sample Loading Volume Range	0.1 - 999.9 mL
Fluid Path Materials	PTFE, PCTFE, Glass, PEEK, Ruby, Sapphire
Ambient Operating Temperature	18 to 27 °C
Power Requirements	AC100 - 240 V $\pm 10\%$ , 50/60 Hz, 100 VA
Dimension	320(W) $\times$ 370(D) $\times$ 388(H) mm Including plastic cover
Weight	12.8 kg

## ■ Specification of Test tube Rack (Option)

Test Tube	Test tube and Concentration tube 16 mm
Cat.No.	6030-87001
Dimensions	294(W) $\times$ 80(D) $\times$ 186(H) mm, Including protrusions.
Weight	1.4 kg

For analytical use only.

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