

## SPE-03 4-Channel Cleanup Station

**SPE-03 4-channel cleanup station** is designed for automatic solid phase extraction of large volume water samples. It has four pumps to handle four samples simultaneously. By providing constant flow rate and well controlled elution procedures, SPE-03 helps to improve quality and efficiency of water analysis and release chemists from tedious sample preparation routines.

### 1. Features

#### 1.1 Easy operation

SPE-03 uses built-in methods for automatic extraction. The methods can be easily edited and saved for repeated use. The operation of instrument involves only 7 buttons. Below are typical routine operation procedures:

- Place sample inlet probes in samples
- Place columns and receiving containers
- Select method
- Press start/stop button

The instrument will process the samples automatically according to the method.

#### 1.2 Blockage detection and smart handling

When columns are blocked by particles, the system can detect the blockage and reduce the flow rate accordingly. If blockage still occurs at the minimum flow rate, the instrument will pause to wait for human attendance.

#### 1.3 Small footprint and computer-free operation

The instrument has a very small footprint and does not need a computer. It helps to save precious laboratory space. When volatile or toxic solvents (such as hexane, acetone, and petroleum ether) are used, the instrument can be conveniently placed in a fume hood.

#### 1.4 Different flow rate for each elution steps

Different flow rates can be set for column conditioning, sample loading, and elution. Procedures that are not sensitive to flow rate (e.g. conditioning and blow dry) can use higher flow rate to save time.

#### 1.5 Separate collection of water waste and solvent waste

SPE-03 collects water waste and organic solvent waste in different containers. This feature helps to protect our environment and reduce cost in waste treatment.



## 2. Specifications

Sample capacity	4 per batch
Volume of sample	1 to 4000 mL
Material of wetted parts	Teflon, PEEK, Pyrex glass
System control	Handheld controller
Method	Permanent storage of three methods
Method functions	Pre condition, load sample, elution with 5 solvents, blow dry of sorbent, fraction collection
Pump flow rate	1 to 20 mL/min
Pressure limit of pump	6 bar
Pump reproducibility (C.V.%)	<1.5
Power supply	24 VDC
Current	< 1 A
Weight	10 Kg
Dimension (cm)	30 x 31 x 40 (width x depth x height)

## 3. Ordering Information

Part Number	Description	Price (US\$)
SPE-03-01	Includes SPE-03 mainframe, handheld controller, 24V power supply, collection tray, sample inlet head with filter, adapter for 3-mL columns, and user manual	