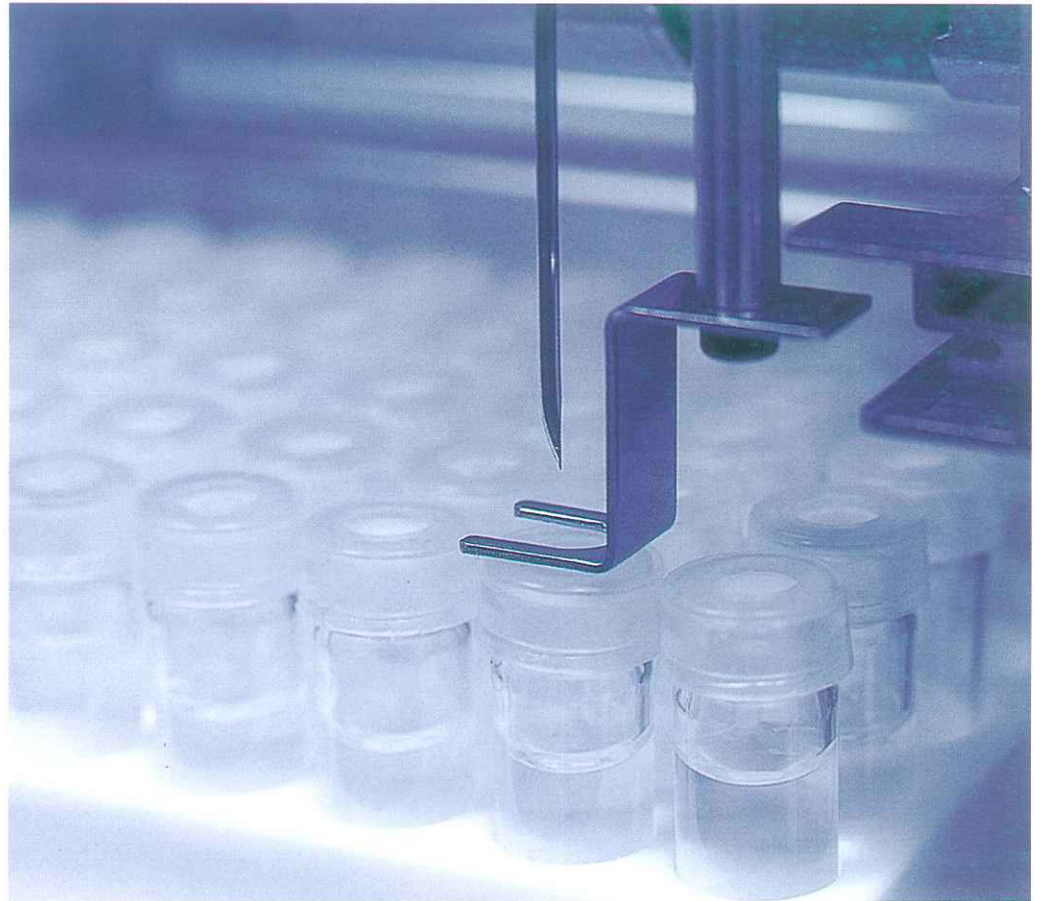


Compact Autosampler for HPLC

Autosampler Model 09



Autosampler (Assure You Of Saving Time & Simplifying Complicated Analysis)

▶ Automatic Injection System will greatly offers you rationality of analysis.

▶ To achieve accurate analysis, use this system in order to avoid operator's mistake.

▶ Model 09 will definitely stabilize analytical quality by reducing variation of analysis.

▶ Economy type model 09 will enable you to meet your limited budget.

Autosampler Model 09 Standard-type 50 samples



Autosampler

Model 09 μ P

Micro-type 96 samples



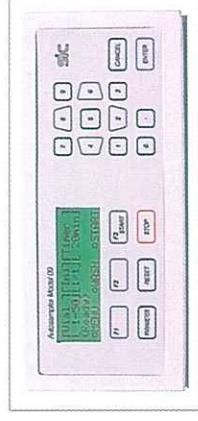
▼ Deep Well Microplate



▲ Microplate

▲ Micro-vial

LCD Display with push keypad assures you accurate and speedy.



- Capable to confirm vial number & operation conditions
- Random vial access and Start are possible

Features

1. Simple operation is materialized by just setup samples
2. Versatile functions enable you to meet various applications
3. Fixed loop gives stable reproducibility
4. Casette-type Sample Table Tray makes you easy sample setup
5. LCD Display gives you easy understanding of operation at a glance

Patent Pending

Innovated Inert Surface Needle

For Ion Chromatography and Bio Applications (Model 09 I Type)

Features

1. Similar strength to stainless steel
2. Inert surface same as PEEK needle

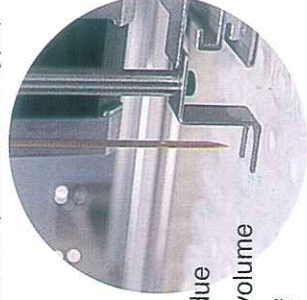
Internal Surface

Sample replacement becomes quicker due to the least absorbance. (More sample volume is required for washing as the surface of conventional stainless steel needle absorbs solvents)

External Surface

The least residual and absorbent surface gives the least liquid contamination.

(Contamination occurs due to conventional stainless steel needle that may absorb samples and residual components)



Result of Experiment

1. Internal inert type needle (Test of replacement rate of various materials)
PEEK ≒ [Our Needle] ≧ Stainless ≒ Titanium (P/N-80072)

2. Experiment for absorbance & residue of needle's external & internal surface
PEEK ≒ [Our Needle] ≧ Stainless ≒ Titanium (P/N-80072)

In general ion chromatography, common sulfuric and phosphoric ions are absorbed by the surface of stainless and titanium while using weak acid. Inert resin surface likes PEEK does not absorb them.

3. Test of component elution

Test Method	Condition	Result
Methanol Extraction	Ultra sonic extraction Within 10 ~ 30 min In Methanol 5ml	No detection at 254nm of UV Detector
Anion Test	Ultra sonic extraction within 10 minutes in Alkali solvent (2.8mMNa ₂ CO ₃ -2.2mMNaHCO ₃)	No detection of the ion components (Less than 1 μ g/10ml of F, Cl, NO ₂ , Br, NO ₃ , PO ₄ , SO ₄)

Standard Type Model 09 For 50 Samples (with DIFLON Value)

Types	Application	Loop Volume (μl)	Max. Pressure (Mpa)
Model 09 Standard	Multi purpose	5 ~ 100 (standard 20μl SUS Loop)	35
Model 09 I	Bio samples, Inert type for Ions (Wet part: PEEK, Teflon)	5 ~ 100 (standard 50μl PEEK Loop)	25
Model 09 IL	Semi-preparative inert type for Bio samples (Wet part: PEEK, Teflon)	5 ~ 1000 (standard 100μl PEEK Loop)	25
Model 09 D	For both Anion & Cation IC	5 ~ 100 (standard 50μl SUS Loop)	35
Model 09 DI	Bio samples, both Anion and Cation IC application	5 ~ 100 (standard 50μl PEEK Loop)	25



Model 09 L For Organic Solvents, 50 Samples (with Metal Value)

Model 09 L	Semi-preparative Type	5 ~ 1000 (standard 100μl SUS Loop)	35
------------	-----------------------	------------------------------------	----

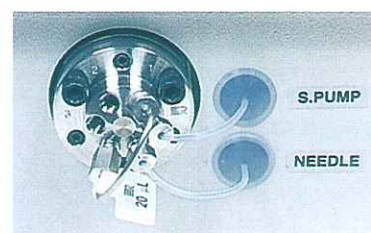
Model 09 μP Microtype For 96 Samples (with DAIFLON Value) Optional Microplate, Micro Vial, Deep Well Vial are applicable

Model 09 μP	Multi-purpose for 96 vials	5 ~ 100 (standard 20μl SUS Loop)	35
Model 09 μPI	Bio samples, Inert Type (Wet part: PEEK Teflon)	5 ~ 100 (standard 20μl PEEK Loop)	25



Specifications

Quantity of Sample	Standard : 50 vials	MP Micro Type : 96 vials
Vial Type	2.0ml	Microplate, Micro Vial Deep-well Vial
Injection Volume	Fixed 20μl Loop Option : 5,10,50,100μl	
Number of Injection	1 ~ 9 times/same sample	
Valve Pressure	35Mpa	
Vial Designation	Random access	
Reproducibility	Within 0.5% of CV	
Remote Start	2 contacts	
Wet Part Material	Valve, Needle : Stainless steel Union : PEEK Tubing : Teflon 3-way Valve : DAIFLON	
Dimension	210(W)x380(D)x297(H)mm	
Net Weight	15kg	
Power	AC100V±10% ,100VA	



Specifications subject to change without prior notice.

Manufacturer

SIC System Instruments Co.,Ltd.

〒192-0031

776-2, Komiya-cho, Hachioji City,

Tokyo, Japan.

Worldwide Sold Distributor

Ever Seiko Corporation



EVER SEIKO CORPORATION

ES Bldg., 4-39-5, Senzoku, Taitoku, Tokyo 111-0031 Japan
Tel: (813) 3874-8871 URL: <http://www.everseiko.co.jp>
Fax: (813) 3874-8873 E-mail: info@everseiko.co.jp

E-mail: info@everseiko.co.jp

URL: <http://www.everseiko.co.jp>