

SIL-10AF/SIL-10AP

Autosamplers for Shimadzu HPLC Systems



SIL-10AP with SCL-10Avp

As HPLC applications continue to diversify, having in sample injection flexibility is vital.

Users want a system with a wide range of features to handle a range of analyses from normal analysis to semi-preparative applications. Instruments that can be used not only for sample injection but for sample preparation, and enable higher analytical throughput, are essential for analysts.

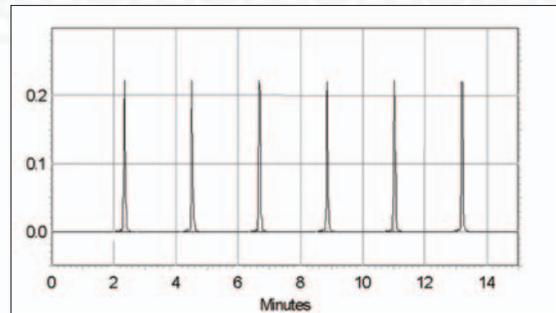
In order to meet such user requirements, 2 new models, the SIL-10AF and the SIL-10AP, are available for the Shimadzu High Performance Liquid Chromatograph Systems.

SIL-10AF features

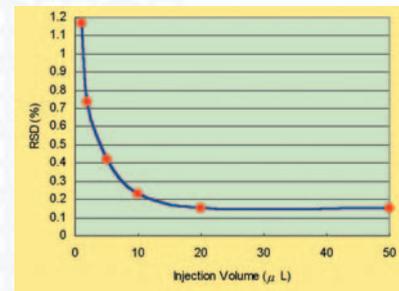
Sample injection time is only 40 seconds for a 10 μ L injection. When flow line rinsing after an injection is included, the unit is ready for the next injection in about 2 minutes. As a result, high-throughput repeat analysis is possible, and sample preparations, such as dilution and mixing, can be performed rapidly. As well as being a multi-purpose autosampler, it is also capable of high-speed sample injections. In particular, the time required for sample preparation has been shortened substantially. Furthermore, sample processing capability is greatly enhanced since two 96-well titer plates (standard and deep-well) can be used. Injection repeatability, essential for quantitative analysis, is excellent, producing highly reliable analytical results.

SIL-10AP features

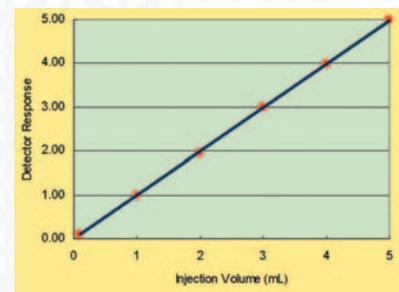
Injection of samples up to 5 mL is possible in its standard setup. For this reason, this autosampler is suitable for preparative LCs and sample enrichment systems. Exhibiting high performance in both linearity and repeatability, its quantitative capability is excellent when injecting both large and small volumes.



Example of repeat analysis with the SIL-10AF



Repeatability of each injection volume with the SIL-10AF



Injection volume linearity with the SIL-10AP

SIL-10AF/SIL-10AP common features

Flexibly adapts to a variety of applications

Sample vials ranging from microtiter plates to 13 mL vials are supported*, and can be used in a wide range of applications from analytical to semi-preparative work. As well as syringe-measured injections, a fixed-volume loop injection, which minimizes cross-contamination and has excellent repeatability, is also available.

In addition, both units impart flexibility to sample preparation by utilizing dilution and reagent addition routines.



Micro-plate rack and 13 mL vial rack

- * The settable range of injection volumes with the SIL-10AF is 1-50 mL. Using the options this can be changed to 1-400 mL, 1-2000 mL, 1-5000 mL.
- * The settable range of injection volumes with the SIL-10AP is 1-5000 mL. The 13 mL vial rack (which allows 25 vials to be set) is standard equipment. It can be changed to SIL-10AF specifications using the options.



SIL-10AP



SIL-10AF

■ Specifications SIL-10AF (P/N:228-45056-xx) / SIL-10AP (P/N:228-45057-xx)

	SIL-10AF (228-45056-xx)	SIL-10AP (228-45057-xx)
Injection method	Loop injection, variable injection volume	
Injection volume setting range	1 μL to 50 μL (standard) 1 μL to 400 μL (option) 1 μL to 2,000 μL (option) 1 μL to 5,000 μL (option)	1 μL to 5,000 μL (standard) 1 μL to 400 μL (option) 1 μL to 2,000 μL (option)
Number of samples processed	100 with 1.5 mL vials (60 with optional cooler) 80 with 4 mL vials (50 with optional cooler) 25 with 13 mL vials 192 with two 96-well microtiter plates	
Injection-volume accuracy	Not specified	
Injection-volume precision	RSD: 0.5% max. (10 μL injection, standard mode)	RSD: 1% max. (10 μL injection)
Sample carryover	Not specified	
Number of repeated injections	30 max. per sample	
Needle rinsing	Set freely before and after sample injection	
Sample cooler	Optional Sample Cooler S (228-45063-xx) or L (228-45064-xx) Block-heating/cooling method 4 °C to 70 °C	
Operating pH range	pH 1 to pH10	
Operating temperature range	4 °C to 35 °C	
Dimensions, weight	Main unit: 260 (W)x 280 (H)x 420 (D)mm, 19 kg Syringe unit: 100 (W)x 280 (H)x 150 (D)mm, 4 kg	
Power requirements	AC 110V, 230V, 100VA, 50/60Hz	

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SHIMADZU CORPORATION. International Marketing Division

3. Kanda-Nishikicho 1-chome, Chiyoda-ku, Tokyo 101-8448, Japan

Phone: 81(3)3219-5641 Fax: 81(3)3219-5710

URL <http://www.shimadzu.com>

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