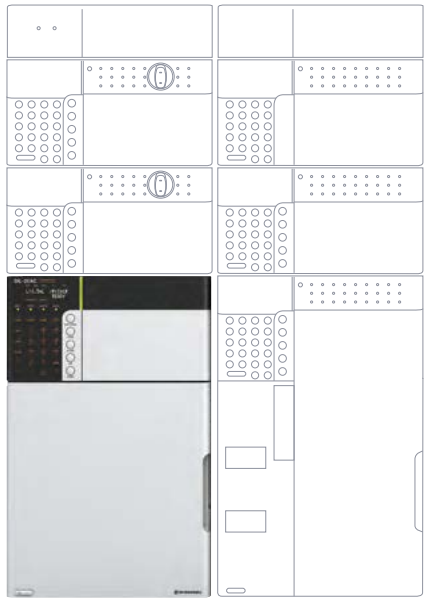
Autosamplers



SIL-20A / 20AHT

Supporting High-Throughput Analysis

The SIL-20A is a total-volume injection-type Autosampler that enables high-speed injection and multi-sample processing. It was designed to ensure greater stability, with improved durability attained through modifications in valves and sample loops.

SIL-20AC / 20ACHT

Equipped with Cooling Function

The SIL-20AC is equipped with a sample cooler that incorporates a dehumidifying function. Samples can be maintained at a fixed temperature in the range of 4 to 40°C. The high cooling speed makes it possible to keep easily decomposed sample constituents in a stable condition.

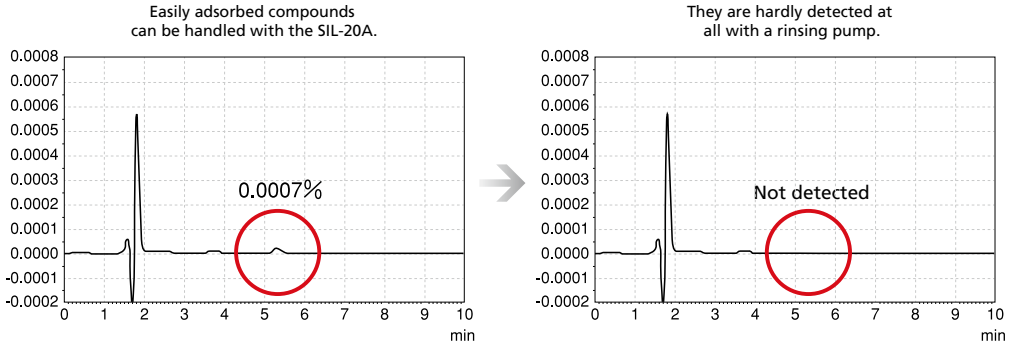
Rack Changer II

Supporting Multi-sample Processing

Maximum 12 microplates can be set. The robot arm in the rack changer automatically loads both micro-plates and racks for standard 1.5 mL vials into the autosamplers. It is a powerful tool for the analysis of a large number of samples.

Sample Carryover Reduced to an Absolute Minimum

Adsorption of sample constituents has been reduced to an absolute minimum by using a special processing technology for the sampling needle (patent pending) and rethinking the structure of the needle seal and the materials used in flow-line parts. As a result, there is hardly any sample carryover. Also, the adoption of a PEEK rotor seal allows use over a wide pH range, from strongly acidic conditions to strongly basic conditions. Using the optional rinse kit (228-43042-91)
makes it possible to rinse the sampling needle with two different solvents, selected in accordance with the purpose.



Cross-contamination Test for Chlorhexidine

Precise Sample Injection

Greater accuracy has been attained by incorporating a high-performance sampling device that can measure out the samples with high precision. The design reflects an emphasis on basic performance as well as functionality. Also, using direct injection means valuable samples are not wasted.

Injection-Volume Accuracy

Set value (µL)	Measured value (µL)
1	0.99
2	1.99
5	5.01
10	10.00
20	19.92
50	49.90
100	99.70

Injection-Volume Precision

Injection volume (µL)	Area reproducibility (%RSD)
1	0.43
2	0.25
5	0.06
10	0.04
20	0.03
50	0.10
100	0.11