

Syringe Sampling System

with LiQuilaz® II Particle Counter



The SLS Syringe Sampling System is ideal for applications where precise, small-volume sampling is needed. The system consists of a syringe sampler for either corrosive or non-corrosive liquids, a particle counter for different sizing sensitivities, and software.

A convenient naming system identifies the particle counter installed inside the instrument (see the **Specifications** table).

BENEFITS

Cost-Effective

- Small sample volume minimizes waste of expensive product
- Automated system saves time and money
- Compatibility with both corrosive and non-corrosive liquids

Easy-to-Use

- Menu-driven data collection
- Recipes can be created and retrieved for repeatable system operation with different operators
- Password security maintains system integrity

Versatile

- Ability to support a wide range of applications
- Programmable particle size thresholds
- Extremely accurate measurements

APPLICATIONS

- Small volume chemical quality assurance
- Parts cleanliness testing
- Laboratory water sampling
- Pharmaceutical testing for USP compliance
- Industries: semiconductor, pharmaceutical, data storage, medical, aerospace, automotive, hydraulic oils

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Specifications

SLS-1000

Syringe size	1, 5, 10 (standard) 25 ml
Sampling mode	Vacuum
Minimum sample size	0.4 ml @ 20 ml/min
Wetted surface materials	Glass, Teflon® (100%-fluoropolymer syringe optional)
Power	100 – 240 V, 50 – 60Hz
Sample volume	Adjustable using software interface
Maximum pressure	25 psi
Dimensions (l, w, h)	15 x 9 x 17.1 in (38.1 x 22.0 x 43.4 cm) including particle counter
Weight	30 lb (13.6 kg) including particle counter
Environment	Temperature: 50 – 86 °F (10 – 30 °C); Humidity: non-condensing

	LiQuilaz II E15P	LiQuilaz II E20P	LiQuilaz II S02	LiQuilaz II S03	LiQuilaz II S05
SLS Instrument Label	SLS-2000	SLS-2000	SLS-1200	SLS-1300	SLS-1500
Size range	1.5 – 125 µm	2.0 – 125.0 µm	0.2 – 2.0 µm	0.3 – 3.0 µm	0.5 – 20.0 µm
Channels	15				
Flow rate	20 ml/min				
Sampled %	100%				
Maximum concentration*	10,000 particles/ml				
Zero count	< 50 counts/l				
Sample temperature	50 – 122 °F (10 – 50 °C)				
Wetted surface materials	Fused Silica, Black Quartz, Teflon, Kel-F®, Kalrez®		Sapphire**, Teflon, Kel-F, Kalrez		
Calibration	Materials used are traceable to US National Institute of Standards and Technology (NIST) and Japanese Institute of Standards (JIS).				
Software	SamplerSight				

*Greater than 90% accuracy (less than 10% coincidence loss) at max. recommended concentration.

** Compatible with hydrofluoric acid sampling.

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