

# Syringe Sampling System with LiQuilaz<sup>®</sup>

The Syringe Sampling System with LiQuilaz is used to size and count suspended particulate matter in liquids. These systems are 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 monitor for different sizing sensitivities, and software.



## BENEFITS

### Cost Effective

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

### User-Friendly

- Easy to use, pull-down help menus
- Recipes can be created and retrieved for later sampling
- Password security maintains system integrity

### Versatile

- Batch and in-line sampling capabilities
- Supports a wide range of applications
- Programmable process control limits
- Programmable particle size thresholds
- Extremely accurate measurements

## FEATURES

- Sizing sensitivities from 0.2 to 125.0 microns
- Up to 15 sizing channels available
- Container and in-line sampling
- Sample volumes from .1 milliliter to 1000 milliliter
- Optional 21CFR11 compliant software
- Small footprint, compact system
- Wide range of chemical compatibility

## APPLICATIONS

- Small volume chemical quality assurance
- Part cleanliness testing
- Laboratory water sampling
- Pharmaceutical testing for USP compliance

## INDUSTRIES

- Semiconductor
- Pharmaceutical
- Data storage
- Medical
- Aerospace

Without measurement, there is no control.



# Specifications

Liquid sampler	LS-200 Non-corrosive liquids	LS-50 Corrosive liquids
Syringe size:	1, 5, 10 (standard) and 25 ml	1, 10, 25 and 50 ml (standard)
Sampling mode:	Vacuum syringe pump	
Minimum sample size:	10% of syringe volume	
Wetted surface materials:	Glass, Teflon®	
Power:	100-240V, 50-60 Hz, 1.25 amp maximum	
Sample volume:	adjustable from 0.1 ml to 25 ml	adjustable from 0.1 ml to 50 ml
Dimensions (l, w, h):	16" x 8" x 11" (40 x 19 x 29 cm)	14" x 11" x 4" (36 x 29 x 9 cm)
Weight:	22 lbs. (10 kg.)	11 lbs. (5 kg.)
Environment:	Temperature: 10 - 35°C, Humidity: non-condensing	

Liquid sensor	LiQuilaz E 20P	LiQuilaz SO5	LiQuilaz SO3	LiQuilaz SO2
Size range:	2.0 - 125.0 µm	0.5 - 20.0 µm	0.3 - 3.0 µm	0.2 - 2.0 µm
Channels:	15	15	15	15
Flow rate (ml/min):	20 ± ml/min	20 ± ml/min	20 ± ml/min	20 ± ml/min
Sampled %:	100%	100%	100%	100%
Maximum concentration/ml*:	10,000 cts/ml	10,000 cts/ml	10,000 cts/ml	10,000 cts/ml
Zero count:	50 cts/liter	50 cts/liter	50 cts/liter	50 cts/liter
Maximum psi:	25	100	100	100
Sample temperature:	10-50°C	10-50°C	10-50°C	10-50°C
Wetted surface materials:	Glass, Teflon, Stainless steel, Buna N	Sapphire**, Kel-F® Teflon, Chemraz®	Sapphire**, Kel-F Teflon, Chemraz	Sapphire**, Kel-F Teflon, Chemraz
Dimensions (l, w, h):	13" x 5" x 4" (32 x 11 x 11 cm)			
Weight:	6 lbs. (3 kg)			
Power:	85-125 V, 50-60 Hz    115 VAC ±10% 220-240 V, 50-60 Hz    220 VAC ±10% LiQuilaz SO2 = 100, 115, 220, 230, or 240V			
Calibration:	Materials used are traceable to USA NIST			
Environment:	Temperature: 10 - 35°C, Humidity: non-condensing			
Software:	Sampler Sight			

\*Greater than 90% accuracy (less than 10% coincidence loss) at a maximum recommended concentration.  
 \*\*Compatible with hydrofluoric acid sampling.  
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 Chemraz® is a registered trademark of Greene, Tweed of Delaware.  
 Particle Measuring Systems, Inc. reserves the right to change specifications without notice.

**AUTHORIZED REPRESENTATIVE**



Registration applies to the Boulder, Colorado facility



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