AccuSizer® A7000 SIS Liquid Particle Counter/Particle Size Analyzer

The Accusizer A7000 SIS for USP <788> particulate matter injections testing

The new AccuSizer® A7000 SIS system is the most advanced instrument available for USP <788> testing. It meets or exceeds all requirements in USP <788> by providing size and count data at the required 10 and 25 µm and easily passes all system standardization tests described in USP <1788>. The unique technology designed into the A7000 SIS provides capabilities not available in any other liquid particle counter due to each component being the highest specification/performance on the market. The A7000 is not just a liquid particle counter; it is a sophisticated particle size analyzer as well.

- Measure size and concentration from $0.5 400 \mu m$
- · Sample conservation after measurement
- 1024 size channels defining the complete distribution
- 21 CFR 11 features with security management

Classical light obscuration sensors familiar to pharmaceutical scientists performing USP <788> testing typically have a lower particle size limit near 2 μ m. The LE400 sensor uses two detectors (extinction + scattering) to extend the range to 0.5 – 400 μ m.

A 1024 channel pulse height analyzer provides high resolution results so this is not just a counter – use it as a particle size analyzer on any of your other samples. The AccuSizer software allows conversion from number to volume distribution so results can be compared to other techniques like laser diffraction.

The AccuSizer software is a sophisticated package that automates USP <788> testing including pass/fail criteria and acceptance approval.



AccuSizer 7000 SIS system



LE400 sensor principle

Security Settings	х
┌ General	
Minimum Password Length:	6
Max Login Attempts:	3
Password Expiration Interval:	30
Enable User Timeout (mins)	15
Options	
Special Characters Required	1
Uppercase Required	1
Lowercase Required	1
Numbers Required	1
Ok	Cancel

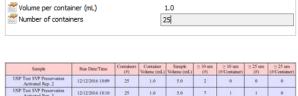
Software security settings



SPECIFICATIONS*

Principle	Single particle optical sizing (SPOS) for high resolution particle size and concentration (particles/mL) analysis. Counts and sizes particles individually, not an ensemble method.
Configurations	Includes sensor, counter and syringe sampler system. Syringe volumes of 0.5 – 25 mL, 1024 size channels, conforms to USP <788>.
Sensor	LE400-05; $0.5-400~\mu m$ when used alone, light extinction and scattering, summation calibration, particle sensitivity to 10 ppt, concentration limit 10,000 particles/mL, size accuracy 2%, count accuracy 10%, recommended flow rate = 30 mL/min, but can be calibrated at other flow rates depending on configuration.
Sample	$150\;\mu\text{L}-25\;\text{mL}$ (or larger with multiple syringe pulls). Sample is recovered after the measurement process.
Options	Autosampler Magnetic stirrer for autosampler
	IQ/OQ documentation for user or complete PSS installation
	21 CFR Part 11 software
Power	100 – 120 VAC, 60 Hz or 220 – 240 VAC, 50 Hz

Screen captures from the USP <788> software features







^{*} Sample dependent and may require hardware options, subject to change without notice.

FOR MORE INFORMATION

Physical Properties - USP 788

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