

LiQuilaz[®] E15, E20, E20P

Particle Counting Spectrometer for Liquids



The LiQuilaz E15, E20, and E20P optical particle counters are volumetric particle counters with sizing sensitivities from 1.5 – 125 μm .

Volumetric particle counters offer the highest precision possible by measuring 100% sample volumes so that short sampling intervals can be utilized without sacrificing statistical significance.



BENEFITS

Yield Improvement

- Real-time characterization and analysis of particle concentration for immediate response to contamination
- Optional software makes process control easy by providing alarm settings, status conditions, sampler setup, and online help
- Volumetric measurements provide greater accuracy for tighter process control

Versatile

- Supports a wide range of applications and fluids
- E15 and E20 are available for online use
- E15 and E20P are available for use with syringe samplers
- Online and batch sampling capabilities
- RS-485 networking compatibility
- FDA 21 CFR Part 11 compliant

Easy to Use

- Small footprint for easy placement anywhere in the process
- Flexible software provides numerous viewing options for real-time or retrieved data
- User-selectable particle size thresholds

FEATURES

- Sizing sensitivities from 1.5 – 125 μm
- 15 user-adjustable sizing channels
- Volumetric: 100% view volume
- Facility Net, SamplerSight, Pharmaceutical Net, or SamplerSight Pharma
- Pharma software
- Compact system

APPLICATIONS

- Pharmaceutical WFI, PW performance verification
- Medical device cleanliness testing
- Parenteral sampling
- Detect abrasive particles
- Continual process improvements

Without measurement there is no control.

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specifications

	LiQuilaz E20, E20P	LiQuilaz E15
Size range	2 – 125 µm	1.5 – 125 µm
Size channels	15	15
Flow rate (ml/min)	70 ml/min (E20) or 20 ml/min (E20P)	20 ml/min
Sample volume	Volumetric; 70 ml/min (E20) or 20 ml/min (E20P)	Volumetric; 20 ml/min
Maximum concentration ¹	10,000 particles/ml	
Sample temperature	50 – 122 °F (10 – 50 °C)	
Zero count	< 50 counts/l	
Maximum pressure	200 psi	
Laser source	Laser diode	
Wetted surface materials	Fused Silica, Black Quartz, Teflon [®] , Kel-F [®] , Kalrez [®]	
Dimensions (l, w, h)	13 x 4 x 5 in (32 x 11 x 11 cm)	
Weight	6 lb (3 kg)	
Power	85 – 250 V, 50 – 60 Hz	
Communications	RS-485	
Calibration	Materials used are traceable to USA NIST (National Institute of Standards and Technology) and/or Japanese Institute of Standards (JIS)	
Environment	Temperature: 50 – 95 °F (10 – 35 °C); Humidity: Non-condensing	

¹Greater than 90% accuracy (less than 10% coincidence loss) at maximum recommended concentration.
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