Liquilaz® II E Series

Particle Counting Spectrometer for Liquids

Designed for intuitive and reliable portable particle counting

Meets the latest data integrity requirements

Without measurement there is no control®

The LiQuilaz[®] II E series optical particle counters are volumetric particle counters with sizing sensitivities from 1.5 – 125 μm.

LiQuilaz II sensors provide the same levels of accuracy, reliability and repeatability that customers have trusted for many years. LiQuilaz II sensors feature both RS-485 and Ethernet network communications. The new Ethernet capability increases product flexibility and makes installation significantly easier.

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
- E15P and E20 are available for online use
- E15P and E20P are available for use with syringe samplers
- Online and batch sampling capabilities
- RS-485 and Ethernet networking compatibility
- Ethernet TCP/IP communication
- Supports 21 CFR Part 11 in combination with SamplerSight Pharma software

Easy to Use

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

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
- Compact system
- Compatible with 3rd party systems using RS 485 Modbus protocol

APPLICATIONS

- Pharmaceutical WFI, PW performance verification
- Medical device cleanliness testing
- Parenteral sampling
- Detect abrasive particles
- Continual process improvements
- USP 788-1788 compliance with the SLS sampler family



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Specifications

| MODEL | LiQuilaz II E20P | LiQuilaz II E20 | LiQuilaz II E15P |
|-------------------------------|--|-----------------------------|-----------------------------|
| Size range | 2 – 125 μm | 2 – 125 μm | 1.5 – 125 μm |
| Flow rate | 20 ± 10% ml/min | 70 ± 10% ml/min | 20 ± 10% ml/min |
| Sample volume | Volumetric 20 ml/min (100%) | Volumetric 70 ml/min (100%) | Volumetric 20 ml/min (100%) |
| Size channels | User adjustable from 1 to 15 | | |
| Resolution | Less than 10% at 10 μm | | |
| Maximum concentration* | 10,000 particles/ml | | |
| Sample temperature | 50 – 122 °F (10 – 50 °C) | | |
| Zero count | < 50 counts/liter | | |
| Pressure range | 0 - 100 psi | | |
| Wetted surface materials | Fused silica, black quartz, Kalrez® and Kel-F® | | |
| Liquid connections | 3 mm flare or 1/4-inch Flaretek® | | |
| Communication modes | 5-wire, RS-485, DE9 connectors, PMS serial communications protocol, 10/100BaseT Ethernet, PMS Ethernet Protocol, Modbus TCP | | |
| Operating environment | Temperature: 10 - 35 °C (50 - 95 °F) Humidity: 5 - 95% RH non-condensing | | |
| External Dimensions (l, w, h) | 12.75 x 4.25 x 4.5 in (32.4 x 10.8 x 11 .4 cm) | | |
| Weight | 6.1 lb (2.8 kg) | | |
| Power | AC: 100 - 240 VAC 50/60Hz, 2.5 A | | |
| Laser source | Laser diode | | |
| Calibration | Materials used are traceable to U.S. National Institute of Standards and Technology (NIST) and/or Japanese Institute of Standards (JIS) | | |
| Calibration fluid | DI water | | |

¹ Less than 10% coincidence loss at maximum recommended concentration.

SOLUTIONS FOR YOUR INDUSTRY

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