

Lasair[®] III

Aerosol Particle Counter

Specifications

	310B, 310C	350L	5100
Channels	310B: 0.3, 0.5, 1.0, 3.0, 5.0, 10.0 µm 310C: 0.3, 0.5, 1.0, 5.0, 10.0, 25.0 µm	0.3, 0.5, 1.0, 5.0, 10.0, 25.0 µm	0.5, 1.0, 2.0, 5.0, 10.0, 25.0 µm
Flowrate	1.0 CFM (28.3 LPM) ± 5%	50 LPM ± 5%	100 LPM ± 5%
Calibration	Meets ISO 21501-4 requirements - ISO 17025 Compliant Certification available (Optional)		
Maximum Concentration^a	> 1,380,270/ft ³	> 832,599/ft ³	> 688,495/ft ³
Counting Efficiency	<ul style="list-style-type: none"> 50% ± 20% for most sensitive threshold 100% ± 10% at 1.5 to 2.0 times channel 1 size <p style="text-align: right;">*Both meet ISO 21501-4 requirements.</p>		
Zero Count	7.07 counts/m ³ (1CFM); 4.00 counts/m ³ (50 LPM); 2.00 counts/m ³ (100 LPM)		
Data Storage	3,000 complete data sets. 21 CFR 11 compliance. Long-term data storage/analysis with DataAnalyst.		
Communication Modes	Ethernet, Modbus TCP/IP, or RS-232; USB data downloading; optional internal wireless Ethernet		
Controlling Software	Facility Net, Pharmaceutical Net, FacilityPro, Microsoft [®] Internet Explorer [®] 5.0+, Firefox [®]		
Remote Operation	Remote web browser operation; real-time download to Facility Net or Pharmaceutical Net, or Modbus TCP/IP based monitoring systems		
Report Output	<ul style="list-style-type: none"> Available by USB and/or thermal printer Creates reports for ISO 14644-1:1999, ISO 14644-1:2015, EU GMP Annex 1, China GMP, and FS 209E 		
Environmental Sensors	Configurable analog input (4-20 mA)		
Languages	English, French, German, Italian, Chinese (traditional and simplified), Japanese (Kanji), Korean, Polish, Portuguese, Russian, Spanish		
Display and Printer	8.4" color VGA display (640 x 480); IR touch screen (IP65 rated); built-in thermal printer		
External Surface	Polycarbonate (PC)		
Enclosing Cleaning Materials	Bleach, ethyl/isopropyl alcohol, peroxide/quaternary ammonium solutions		
Sample Tubing ID^b	3/8", 8 m max. length	1/2", 8 m max. length	3/4", 8 m max. length
Sample Output Filtering	Internally filtered to > 99.97% at 0.3 µm		
Power and Battery^c	100 – 264 V, 50 – 60 Hz, 150 W Lithium battery: estimated operation 3 hr (single) 6 hr (dual) for 1 CFM unit		
Dimensions (H x W x L)	11.9 x 12.9 x 10.2 in (30.1 x 32.7 x 25.9 cm)		
Weight	13.2 lb (6 kg) without battery, 16.5 lb (7.5 kg) with two optional batteries		
Operating Environment	Temperature: 32 – 86 °F (0 – 30 °C); Humidity: 5 – 95% RH non-condensing		

All dimensions, weights and values not provided with a tolerance are +/-10% values.

a. Less than 10.0% coincidence loss at maximum recommended concentration.

b. For pharmaceutical applications, tubing length should equal 2m maximum.

c. Battery life is based on continuous operation running one (1) minute samples and printing every minute.

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