

DATA SHEET: CLJ-B1030 Airborne Particle Counter

Ultra-High Flow 100 LPM Instrument for Professional Validation

1. PRODUCT OVERVIEW

The **CLJ-B1030** is a high-performance airborne particle counter designed for the rapid assessment of air cleanliness in controlled environments. With its industry-leading **100 LPM flow rate**, it is specifically optimized for certifying high-grade cleanrooms (ISO Class 5 and above) where 1 cubic meter sampling is mandatory. Housed in a rugged 304 stainless steel enclosure, it ensures durability and ease of decontamination in sterile pharmaceutical and electronic manufacturing sectors.

2. KEY FEATURES

- Ultra-Fast Sampling:** The 100 LPM flow rate significantly reduces 1 m³ sampling time to just 10 minutes, improving operational efficiency.
- 8-Channel Monitoring:** Simultaneous tracking of particle sizes from 0.3 µm up to 10.0 µm.
- Compliance & Security:** Features **3-level user rights management** (Administrator, Engineer, Operator) and **Audit Trail** functions to ensure data integrity and traceability for regulatory compliance.
- Intuitive Touch-Screen UI:** Large 7-inch high-resolution color display for real-time monitoring and easy navigation.
- Automated Reporting:** Built-in logic for automatic ISO 14644 and FS 209E cleanliness grade calculations.
- Massive Data Storage:** Internal memory capacity for up to 500,000 sets of measurement data.
- Complete Connectivity:** Equipped with USB, RS485, and Ethernet ports for seamless data export and system integration.

3. TECHNICAL SPECIFICATIONS

Feature	Specification
Flow Rate	100 LPM
Particle Channels	0.3, 0.5, 0.7, 1.0, 2.0, 3.0, 5.0, 10.0 µm
Light Source	Semiconductor Laser (>30,000h life)
Data Storage	500,000 Data Sets
Communication	USB, RS485, Ethernet
Housing Material	304 Stainless Steel

Feature	Specification
Power Consumption	100 W
Power Supply	AC 220V ± 10%, 50Hz
Dimensions (W×L×H)	223 × 348 × 250 mm
Unit Weight	8.5 kg

4. APPLICATIONS

- **Cleanroom Certification:** Rapid verification of Grade A/B aseptic areas and ISO Class 5-9 cleanrooms.
- **High-Volume Sampling:** Ideal for large-scale environmental monitoring where 1m³ samples are required.
- **Regulatory Auditing:** Meeting stringent data traceability requirements in pharmaceutical and biotech industries.
- **Filter Integrity Testing:** Assessing HEPA filter performance and leakage in critical zones.

5. STANDARD ACCESSORIES

- Stainless Steel Isokinetic Sampling Probe
- High-Efficiency Zero-Count Filter
- USB Data Drive
- Thermal Printing Paper
- **Factory Calibration Report**
- Power Cord & User Manual

Manufactured by:
Honri Airclean Technology (Suzhou) Co., Ltd.