DATA SHEET: CLJ-B550 Airborne Particle Counter

Efficient 50 LPM Solution for Professional Cleanroom Validation

1. PRODUCT OVERVIEW

The **CLJ-B550** is a high-performance, microcomputer-controlled particle counter designed for rapid environmental monitoring in critical clean zones. Its **50 LPM flow rate** offers an ideal balance between portability and sampling speed, allowing a full 1-cubic-meter sample to be completed in just 20 minutes. Housed in a durable 304 stainless steel enclosure, it is specifically engineered for pharmaceutical, biotech, and electronic manufacturing sectors where efficiency and sterility are paramount.

2. KEY FEATURES

- **Optimized Flow Rate:** 50 LPM intake significantly accelerates ISO 14644 and GMP compliance testing compared to standard 28.3 LPM models.

- **8-Channel Monitoring:** Simultaneous tracking of particle sizes across 8 channels from 0.3 μm 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.

- **Touch-Screen UI:** High-resolution 7-inch color touch screen provides an intuitive interface for real-time monitoring and data management.

- **Massive Storage:** Internal memory records up to 500,000 sets of measurement data.

- **Industrial Build:** Rugged SUS 304 stainless steel enclosure designed for easy decontamination in sterile environments.

- **Integrated Printer:** Built-in thermal printer for generating instantaneous, audit-ready reports on-site.

- **Automatic Calculations:** Embedded logic for automatic ISO 14644 and FS 209E cleanliness grade reporting.

3. TECHNICAL SPECIFICATIONS

Feature	Specification
Flow Rate	50 LPM
Particle Channels	0.3, 0.5, 0.7, 1.0, 2.0, 3.0, 5.0, 10.0 μm
Data Storage	500,000 Data Sets
Display Type	7-inch Color Touch Screen
Casing Material	304 Stainless Steel

Feature	Specification
Dimensions (WxLxH)	220 × 285 × 260 mm
Unit Weight	**8.5 kg**
Power Consumption	**100 W**
Power Supply	AC 220V ± 10%, 50Hz

4. APPLICATIONS

- **Cleanroom Validation:** Efficient certification of Grade A/B aseptic areas and ISO Class 5-9 cleanrooms.
- **Routine Monitoring:** Regular air cleanliness auditing in pharmaceutical and medical device manufacturing.
- **Filter Testing:** Assessing the performance and integrity of HEPA/ULPA filtration systems.
- **Regulatory Compliance:** Facilitating data traceability and secure record-keeping for GMP/FDA audits.

5. STANDARD ACCESSORIES

- Isokinetic Sampling Probe & Tripod
- Zero Count Filter (Purge Filter)
- High-Durability Carrying Case
- Thermal Printing Paper
- **Factory Calibration Report**
- User Manual

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