

DATA SHEET: FSC-8 Biological Air Sampler

High-Efficiency Microbial Air Sampling for Critical Environments

1. PRODUCT OVERVIEW

The **FSC-8** is a high-performance microbial air sampler engineered for professional environmental monitoring in sterile and controlled environments. Utilizing the **Andersen Impact Principle**, it features a multi-jet isokinetic sampling head to ensure that the intake velocity matches the cleanroom airflow for maximum collection efficiency. This device is an essential solution for pharmaceutical plants, hospitals, food production, and public health laboratories.

2. KEY FEATURES

- Premium Material Construction:** The entire chassis is constructed from high-grade **aluminum alloy**, providing a lightweight yet robust structure suitable for rigorous disinfection.
- Isokinetic Sampling:** The sampling head (standard **aluminum alloy**) features a wind speed of 0.4 m/s to align with cleanroom air velocity, ensuring representative microbial collection.
- Optional Sampling Heads:** High-quality **stainless steel** sampling heads are available as an option to meet specific sterilization protocols.
- Compliance & Security:** Supports 3-level user permissions (Operator, Engineer, Administrator) and comprehensive audit trails to meet regulatory requirements.
- Intuitive Touch Interface:** Features a 5-inch high-definition color touch screen with a user-friendly bilingual interface (English/Chinese).
- Advanced Data & Printing:** Stores up to 20,000 data groups; supports USB data export (CSV) and an **optional Bluetooth printer** for instantaneous on-site reporting.
- Integrated Safety:** Built-in high-efficiency exhaust filter ensures the device maintains ISO Class 3 exhaust air standards.

3. TECHNICAL SPECIFICATIONS

Feature	Specification
Flow Rate	100 L/min
Flow Accuracy	± 2.5%
Principle	Andersen Impact Principle
Sampling Volume	20 - 6000 L (Programmable)
Wind Speed (Sampling Holes)	0.4 m/s (Isokinetic)
Housing Material	Aluminum Alloy

Feature	Specification
Standard Sampling Head	Aluminum Alloy (Optional: Stainless Steel)
Display	5-inch Color Touch Screen
Data Storage	20,000 Groups
Exhaust Level	ISO Class 3
Communication	USB to Serial (MODBUS RTU) / Bluetooth (Optional)
Battery Life	6 - 8 Hours
Dimensions (LWH)	125 × 135 × 260 mm
Weight	2.1 kg

4. APPLICATIONS

- **Pharmaceutical & Biotech:** Monitoring of Grade A/B aseptic processing areas and cleanrooms.
- **Healthcare:** Assessing air quality in operating theaters, sterile pharmacies, and isolation wards.
- **Food & Beverage:** Microbial contamination control in production and packaging lines.
- **Public Health:** Environmental examinations in public spaces and biological labs.

5. STANDARD ACCESSORIES

- Rugged Carrying Case
- Intelligent Battery Charger
- USB Data Drive (U Disk)
- **Factory Calibration Report**
- User Manual
- *Optional: Bluetooth Printer*
- *Optional: Stainless Steel Sampling Head*

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