

DATA SHEET: FSC-IV Biological Air Sampler

High-Efficiency Microbial Air Sampling for Sterile Environments

1. PRODUCT OVERVIEW

The **FSC-IV** is a high-efficiency biological air sampler engineered for professional microbial monitoring in pharmaceutical and healthcare sectors. Built on the principle of multi-jet orifice impact and isokinetic sampling, it ensures high-accuracy collection of airborne microorganisms by aligning sampling velocity with cleanroom airflow. Its portable design and stable performance make it an ideal instrument for sterile production zones and clinical examination departments.

2. KEY FEATURES

- Premium Material Construction:** The entire chassis and sampling head are constructed from high-grade **aluminum alloy**, providing a robust, lightweight structure designed for easy sterilization.
- Isokinetic Sampling:** Features an **aluminum alloy multi-jet sampling head** designed to minimize particle superposition and match the intake velocity with cleanroom air speed for representative collection.
- Data Integrity & Security:** Measurement records are maintained for local on-device review; **external data export is not supported** to ensure record stability.
- Programmable Sampling:** Offers user-adjustable sampling volumes ranging from 0.01 to 6.0 m³ to suit different environmental requirements.
- Real-Time Visualization:** The integrated LCD screen provides clear displays of sampling volume, duration, and key operational parameters.
- Simplified Maintenance:** Features an easy-to-load system compatible with standard $\Phi 90 \times 15$ mm petri dishes, with a removable head for thorough cleaning.

3. TECHNICAL SPECIFICATIONS

Feature	Specification
Model	FSC-IV
Sampling Flow Rate	100 L/min
Sampling Velocity	Isokinetic (Aligned with cleanroom air speed)
Housing Material	Aluminum Alloy
Sampling Head	Aluminum Alloy (Multi-jet Hole)
Petri Dish Size	$\Phi 90 \times 15$ mm
Data Storage	256 Sample Records (Local Review Only)

Feature	Specification
Display	LCD Screen
Power Supply	AC/DC (Dual Power Mode)
Battery Life	6 - 8 Hours (6800mA Lithium Battery)
Dimensions (LWH)	120 × 300 × 195 mm
Weight	2.5 kg

4. APPLICATIONS

- **Pharmaceutical Industry:** Environmental monitoring in aseptic production zones and cleanrooms.
- **Healthcare:** Air quality assessment in operating theaters, sterile wards, and pharmacies.
- **Food & Beverage:** Microbial contamination control during processing and packaging stages.
- **Laboratory & Research:** Specialized biological examinations and environmental research applications.

5. STANDARD ACCESSORIES

- FSC-IV Main Unit
- Aluminum Multi-jet Sampling Head
- Power Adapter / Intelligent Battery Charger
- **Factory Calibration Report**
- User Manual

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