

DATA SHEET: FSC-V Biological Air Sampler

High-Efficiency Microbial Monitoring with Intelligent Control

1. PRODUCT OVERVIEW

The **FSC-V** is a high-performance biological air sampler designed according to the principle of multi-jet hole particle impact and isokinetic sampling. Featuring a robust SUS 304 stainless steel construction and advanced computer-board control, it provides highly accurate microbial collection. The instrument utilizes a low-noise vacuum pump and is specifically engineered for environments requiring rigorous disinfection protocols, making it an ideal choice for pharmaceutical plants, hospitals, and clinical laboratories.

2. KEY FEATURES

- Isokinetic Sampling:** Features a multi-hole sampling head with a wind speed of 0.38m/s, aligning with cleanroom air velocity to minimize collection errors.
- Smart Operation:** Integrated electronic remote Start/Stop functionality and programmable sample volumes from 0.01 to 9.0 m³.
- Visualization:** Large LCD screen provides real-time display of sampling volume, sampling time, battery status, and other critical parameters.
- Rapid Presets:** Supports quick selection of three pre-configured sampling groups and automatic sampling time settings.
- Data Logging:** Internal memory stores up to 256 pages of sampling data, including time and volume parameters.
- Industrial Build:** Sampling head and case are constructed from high-grade SUS 304 stainless steel, ensuring durability and compatibility with various disinfection methods.
- Maintenance Friendly:** Streamlined design allows for easy exchange of Petri dishes by simply removing the sampling vessel cover.

3. TECHNICAL SPECIFICATIONS

Feature	Specification
Model	FSC-V
Sampling Flow Rate	100 L/min
Sampling Velocity	0.38 m/s (Isokinetic Sampling)
Sample Volume	0.01 - 9.0 m ³ (Programmable)
Data Storage	256 Sample Records
Case Material	SUS 304 Stainless Steel

Feature	Specification
Power Supply	AC/DC (Dual Support)
Battery Type	5,000 mA Lithium Battery
Battery Operating Time	6 - 8 Hours
Dimensions (LWH)	235 × 220 × 180 mm
Weight	4.8 kg

4. APPLICATIONS

- **Pharmaceutical Industry:** Validation and monitoring of aseptic filling and processing lines.
- **Healthcare:** Air quality assessment in operating theaters and sterile supply departments.
- **Food & Beverage:** Monitoring microbial loads in sensitive production and packaging areas.
- **Research & Development:** Environmental examinations in biological laboratories and public health institutes.

5. STANDARD ACCESSORIES

- FSC-V Main Sampling Unit
- SUS 304 Sampling Head
- Electronic Remote Controller
- Power Adapter / Battery Charger
- **Factory Calibration Report**
- User Manual

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