Airborne Dust and Bacteria Sampler

Description

The KLABS Airborne Dust and Bacteria Sampler (Model: KAS-6000) is a highly efficient porous suction sampler designed for monitoring airborne microorganisms and dust particles in controlled environments. The instrument is based on the particle impact principle and constant velocity sampling theory, ensuring accurate and reliable sampling performance.

During operation, air containing microorganisms passes through micropores at high speed and impacts the agar surface in a Petri dish. After sampling, the agar dish is incubated, allowing collected microorganisms to grow rapidly for detection and analysis.

The instrument features a dual-section structure, with the upper part consisting of the sampling system and the lower part housing the controller and battery. The use of high-quality aviation aluminum allows easy sterilization and ensures durability for laboratory and cleanroom applications.

KAS-6000

Features

- Advanced airborne dust and bacteria sampling technology
- Based on particle impact & constant velocity sampling principle
- High sampling efficiency with large sampling volume
- Stable performance with simple operation
- 3.5-inch color touch screen control
- LCD display showing sampling volume and time
- Group storage of sampling parameters
- Easy Petri dish replacement
- USB data export to computer
- AC & DC dual operation
- Built-in 6000 mAh battery (up to 8 hours backup)
- Multi-language support (English / Chinese)

Applications

- Pharmaceutical clean rooms
- Biotechnology laboratories
- Microbiology laboratories
- Environmental monitoring laboratories
- Hospital sterile environments

Uses

- Monitoring airborne microbial contamination
- Detection of bacteria and microorganisms
- Cleanroom environmental monitoring
- Laboratory contamination analysis

Technical Specifications

Parameter	Specification
Display	3.5-inch Touch Screen
Sampling Hole Impact Wind Speed	17 m/s
Sampling Port Flow Speed	0.4 m/s (Constant velocity sampling in cleanroom)
Sampling Volume Range	0.01 – 9999 L (Adjustable)
Sampling Flow Rate	100 L/min ±5%
Agar Petri Dish	Standard Ø 90 mm × 15 mm
Data Communication	USB Interface
Volume	Ø 120 × 300 mm
Weight	1.6 kg
Dimensions	22 × 14 × 25 cm