

Airborne Dust and Bacteria Sampler

Description

The KLABS Airborne Dust and Bacteria Sampler (Model: KAS-9999) is a highly efficient porous suction sampler designed for monitoring airborne microorganisms and dust particles in controlled environments. The instrument is designed according to the particle impact principle and constant velocity sampling theory, allowing accurate sampling of airborne microorganisms.

During sampling, air containing microorganisms passes through micropores at high speed and impacts the agar surface in a Petri dish. After sampling is completed, the agar Petri dish is covered and incubated. The collected microorganisms undergo a rehydration process and grow rapidly during incubation, enabling faster microbial detection results.

The instrument features a unique structure divided into upper and lower sections. The upper section includes the sampling port, sampling seat, and air pump, while the lower section contains the controller and battery system. The sampling port and instrument body are made from high-quality aviation aluminum, allowing easy sterilization and disinfection before use.



KAS-9999

Features

- Advanced airborne dust and bacteria sampling technology
- Designed based on particle impact and constant velocity sampling principle
- High sampling efficiency and large sampling volume
- Stable performance with simple operation
- Color touch screen control for faster operation
- LCD display showing sampling volume and sampling time
- Sampling parameters can be stored in groups
- Easy replacement of Petri dishes by removing the sampling port
- Data export to computer through host software
- AC and DC dual-purpose operation
- Built-in 6000 mAh high-capacity lithium battery for up to 8 hours continuous sampling
- Supports switching between Chinese and English language interface

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 \pm 5%
Agar Petri Dish	Standard \varnothing 90 mm \times 15 mm
Data Communication	USB Interface
Volume	\varnothing 120 \times 300 mm
Weight	1.6 kg
Dimensions	22 \times 14 \times 25 cm

Applications

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

Standard Accessories

- 2 \times Petri dishes
- 1 \times Roll of thermal printing paper
- 1 \times Power adapter
- 1 \times User manual
- 1 \times Certificate of conformity

Related Standards

- GB/T 16293-2010 – Test method for planktonic bacteria in pharmaceutical cleanrooms
- ISO 14698-1 / ISO 14698-2 – Biocontamination control for cleanrooms and controlled environments
- GMP – Good Manufacturing Practice for pharmaceutical and food industries

Uses

- Monitoring airborne microbial contamination
- Detecting bacteria and microorganisms in cleanrooms
- Environmental microbial testing
- Airborne contamination monitoring in laboratories