

Microbial Air Sampler

Description

The KLABS Microbial Air Sampler (Model: KAS-100) is a high-efficiency instrument designed for monitoring airborne microorganisms in controlled environments. The sampler operates based on the isokinetic sampling principle, ensuring accurate collection of microbial particles present in the air.

During operation, contaminated air is drawn through multiple precision holes on the sampling head at high velocity. The air then impacts the agar surface of a Petri dish, enabling effective collection of viable microbial particles in accordance with ISO 14698-1 standards.

The instrument provides large sampling capacity, stable performance, and easy operation, making it suitable for environmental monitoring in pharmaceutical manufacturing, hospitals, laboratories, food processing facilities, and other controlled environments.



KAS-100

Features

- Designed based on multi-jet particle impact and isokinetic sampling principle
- High sampling efficiency for airborne microorganisms
- Aluminum alloy construction for durability
- Programmable sampling volume and sampling time
- LCD display showing sampling parameters
- Portable and lightweight design
- Easy replacement of standard Petri dishes ($\Phi 90 \times 15$ mm)
- Internal data storage for sampling parameters

Applications

- Pharmaceutical clean rooms
- Microbiology laboratories
- Hospitals and healthcare facilities
- Food and beverage industry
- Environmental monitoring laboratories

Uses

- Monitoring airborne microbial contamination
- Clean room environmental monitoring
- Detection of bacteria and fungal spores in air
- Hygiene monitoring in food production environments

Technical Specifications

Parameter	Specification
Model	KAS-100
Temperature Range	10 – 35 °C
Relative Humidity	10 – 90 % RH
Atmospheric Pressure	80 – 110 kPa
Maximum Dust Concentration	100000000 particles/m ³ or 0.2 mg/m ³
Sampling Flow Rate	100 L/min
Inlet Impact Speed	0.38 m/s
Sampling Volume	0.001 – 9.999 m ³
Culture Dish Size	Φ90 × 15 mm
Power Supply	DC 16.8 V Rechargeable Battery
Battery Backup	Up to 4 hours
Dimensions	Φ120 × 325 mm
Weight	4.0 kg