



Compressed Air Sampler



Description

The KLABS Compressed Air Sampler (Model: KCAS-100) is designed for microbial detection and particle counting in compressed gas systems. The device is widely used in pharmaceutical, biotechnology, and cleanroom environments to monitor air cleanliness and contamination levels.

The sampler supports particle size detection $\geq 0.3 \mu\text{m}$ with multiple flow rate options including 28.3 L/min, 50 L/min, and 100 L/min, enabling accurate particle monitoring. It also supports microbial detection through floating bacteria sampling at 50 L/min and 100 L/min.

The instrument features a flow control knob, flow meter, and compressed air inlet, allowing precise adjustment of sampling flow. It can be connected to planktonic microbial sampling equipment and dust particle counters for comprehensive air quality monitoring.

Constructed with SUS304 stainless steel, the sampler provides durability, corrosion resistance, and reliable performance in laboratory and industrial environments.

Features

- Designed for compressed air microbial detection and particle counting
- Supports particle size detection $\geq 0.3 \mu\text{m}$
- Compatible with particle counters and microbial samplers
- Adjustable flow control knob for precise pressure regulation
- Built-in flow meter for monitoring sampling flow
- Low noise operation (< 50 dB)
- Durable SUS304 stainless steel construction
- Compact and easy installation design

Applications

- Pharmaceutical cleanrooms
- Biotechnology laboratories
- Environmental monitoring laboratories
- Food and beverage manufacturing facilities
- Compressed gas quality monitoring

Uses

- Monitoring compressed air cleanliness
- Detecting microbial contamination in compressed gas systems
- Supporting particle counting analysis
- Environmental monitoring in controlled environments



KCAS-100

Technical Specifications

Parameter	Specification
Model	KCAS-100
Applicability	Microbial detection and particle counting
Particle Size Range	$\geq 0.3 \mu\text{m}$
Flow Rate Options	28.3 L/min, 50 L/min, 100 L/min
Microbial Detection Flow	50 L/min, 100 L/min
Input Pressure	0.1 – 1.0 MPa (30 – 150 psi)
Compatible Gases	Nitrogen, Argon, Helium
Noise Level	< 50 dB
Material	SUS304 Stainless Steel
Dimensions	150 × 300 × 200 mm
Weight	3.3 kg

Interface Components

- Collection Port – Connects planktonic microbial acquisition equipment
- Counting Interface – Connects dust particle counter equipment
- Flow Control Knob – Adjusts cavity pressure and airflow
- Flow Meter – Displays internal cavity pressure and flow status