

Portable Biological Air Sampler CTZ-PBAS-100



Portable Biological Air Sampler is designed according to the multi-beam hole particle effect and isokinetic sampling principle. It more accurately absorbs airborne organisms. While sampling, airborne particles attach to the agar surface of substrate materials through small holes. Organisms in the particles form colonies on top of the agar plate after incubation and these can be counted.

This instrument consists of two parts, the sampling part, and the controller part. The top sampling part; includes a sampling base consisting of sampling jet holes and a vacuum air pump. The sampling base and shell are made of high-quality aviation aluminum, the surface holes can be sealed so the whole instrument is suitable to be sterilized before use. The lower part contains the controller and batteries.

This device is easy to use. It has a large sampling volume, stable performance, and complies with international standards. It is an ideal Portable Biological Air Sampler for medical plants, hospitals, biological products, food processing, public places, and other inspection departments.

Features

- The sampling part has many small holes to reduce particle superposition and reduce the error of organism count.
- LCD screen displays sampling quantity, sampling time, and other parameters.
- Programmable, sampling quantity can be set from 0.01 to 6.0 m³.
- Up to 256 sample data storage of sampling time, sampling volume, and other parameters.
- Portable, lightweight, convenient to use.
- Easy to change petri dish, just only take down sampling hole to change petri dish. (Petri size; Diameter: 90mm, Height: 15mm).

Specification

Part Number	: CTZ-PBAS-100
Product Name	: Portable Biological Air Sampler
Material	: Aviation aluminum
Structure	: PC board control, low noise pump sampling
Flow rate	: 100L/min
Rechargeable Li-ion battery	: DC7.4V/6400mAh
Operating Time on Battery	: 6-8 hours
Power Supply	: AC & 220V±10%, 50Hz/60Hz
Package Size(LxWxH)	: 190 x 380 x 420 mm (7.5" x 14.96" x 16.5")
Net Weight	: 2.5 kg (5.5 lbs)
Gross Weight	: 6.0 kg (13.2 lbs)
Accessory	: Carrying case and Petri dish(2 pcs)
Wind Speed of sampling holes	: 0.4m/s, basically the same as that of clean room (Isokinetic sampling)

Six-Stage Microbial (Viable) Cascade Impactor CTZ-MCI-6

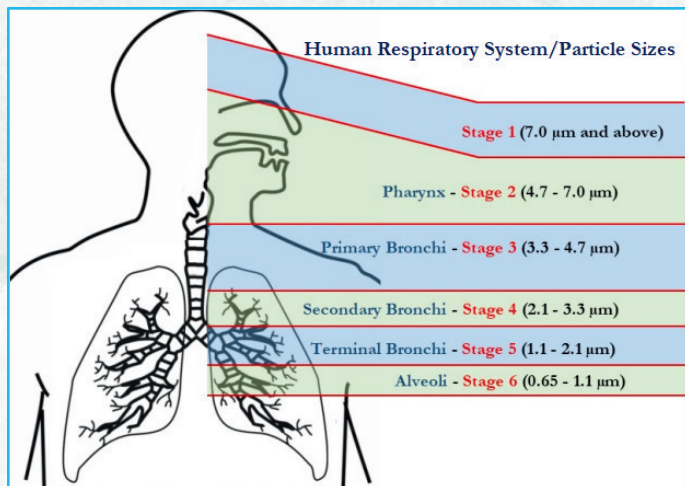
CTZ-MCI-6 Model Six Stage Microbial (Viable) Cascade Impactor (Air Sampler) is multi-orifice. It used to measure the concentration and particle size distribution of aerobic bacteria and fungi in the intramural or ambient air. These units have been widely used for enumerating the viable particles in a microbial aerosol.

Viable particles can be collected on a variety of bacteriological agar and incubated for counting or identification. These samplers are designed so that all particles collected, regardless of physical size, shape, or density are sized aerodynamically and can be directly related to human lung deposition. The multi-orifice cascade impactor size-selective feature permits the assessment of an airborne contaminant in relation to its disease potential arising from its deposition site within the respiratory tract.

The CTZ-MCI-6 Model Six Stage Microbial (Viable) Cascade Impactor requires Petri dishes. The Petri dishes are removed after the sampling, incubated, and counted by an accepted method.

Assembly Parts

CTZ-MCI-6 has included Six parts stages with O-rings, one bottom part with O-ring, one inlet cone with O-ring, and three clamping parts.



Stage	Orifice Diameter (mm)	Particle Size (µm)
Stage 1	1.18	7.0 and above
Stage 2	0.91	4.7 to 7.0
Stage 3	0.71	3.3 to 4.7
Stage 4	0.53	2.1 to 3.3
Stage 5	0.34	1.1 to 2.1
Stage 6	0.25	0.65 to 1.1



Part Number Description

- CTZ-MCI-6-11 Six Stage Microbial Viable Cascade Impactor with vacuum pump-110V & carrying case-L
- CTZ-MCI-6-12 Six Stage Microbial Viable Cascade Impactor with vacuum pump-220V & carrying case-L
- CTZ-MCI-6-10 Six Stage Microbial Viable Cascade Impactor with carrying case-M without vacuum pump
- CTZ-MCI-6-00 Six Stage Microbial Viable Cascade Impactor without vacuum pump and w/o carrying case
- CTZ-CASE-01 Carrying case-Medium-Interior dimensions: 30,2x22,9x13,5 cm (11-7/8in.x9in.x5-5/16in.)
- CTZ-CASE-02 Carrying case-Large-Interior dimensions: 37,8x27x15,6 cm (14-7/8in.x10-5/8in.x6-1/8in.)
- CTZ-PUMP-01 Vacuum Pump 1 cfm (28.3 L/min)-110V
- CTZ-PUMP-02 Vacuum Pump 1 cfm (28.3 L/min)-220V