Microbial aerosol concentrator

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Microbial aerosol concentrator

DS-QC020

Product overview

The microbial aerosol concentrator is developed based on the Anderson impact principle. The microbial aerosol concentrator is divided into two parts: the impact chamber and the collection chamber. The impact chamber consists of an impact plate and a receiving plate. This product complies with the requirements of the standard Public Place Hygiene Inspection Methods Part 5: Central Air Conditioning and Ventilation Systems and the hygiene industry standard Public Place Central Air Conditioning and Ventilation System Hygiene Specification. The air supply of the central air conditioning is collected and tested for Legionella pneumophila. The large collection flow rate enables the required particles to be concentrated into the sampler in a short period of time, avoiding the loss of biological activity caused by long-term sampling and improving the practicality of the sampler on site.

Product Specification

- The main air flow rate (12-120) L/min can be adjusted, with an allowable error of ± 5%;
- The flow rate of the concentrated gas path is adjustable from 1.5 to 15 L/min, with an allowable error of ± 5%;
- The repeatability error of the main gas path flow rate and the concentration gas path flow rate is ± 2%
- The capture efficiency of biological particles above 3um is greater than 90%.
- When the cutting particle size is 100L/min, Da50=1.1 μ m,
- When the cutting particle size is 150L/min, Da50=0.65 μ m
- The cutting particle size is Da50=0.43 μ m at an airflow of 200L/min.
- Timer function: 1 second -99 hours 59 minutes 59 seconds
- Simultaneous dual channel acquisition
- Manual flow adjustment
- Equipped with adjustable pan tilt zoom, the height of the sampling head can be adjusted by 3 meters (or 4 meters optional) according to the on-site situation

High end accessories:

SKC liquid impact microbial aerosol sampler from the United States

Technical parameters

The special design of the high-efficiency glass impact bottle capture device requires a high flow rate sonic air sampling pump to capture microorganisms (such as bac teria, fungi, pollen, viruses) and their by-products such as endotoxins, mycotoxins, and other debris in the air for further analysis.
The liquid impact microbial aerosol sampler has three tangential curved nozzle heads and decisive or sonic flow small holes, each allowing 4.2 liters/minute of air to pass through the combined flow rate, achieving a flow rate of approximately 12.5 liters/minute. Allow effective capture of total or live bioaerosols for a duration of at least 8 hours.

Configuration List

Item	Quantity
Host	1 pcs
External pump	1 pcs
Timer	1 pcs
Tripod (2 meters)	1 pcs
Tripod (3 meters)	1 pcs
Instrument box	2 pcs
Connecting pipe	4 pcs
Concentrator	1 pcs
PTZ	1 pcs
Tray	1 pcs
Warranty Card Certificate of Conformity	1 pcs
Instructions	1 pcs