

Introduction to diluents



In cleanroom and particle detection tasks, it is often necessary to dilute high-concentration aerosol particles while maintaining the particle size distribution before and after dilution.

Using an aerosol diluter, the same measurement device can measure both high and low particle concentrations.

The instrument uses finely processed capillaries to collect a portion of the aerosol particles, maintaining a constant internal flow ratio. The remaining aerosol is filtered through a HEPA filter via a bypass, and then the two streams are evenly mixed, diluting the particle concentration as it passes through the diluter.

By maintaining a specific ratio between the capillary and bypass, a fixed dilution ratio can be achieved.

merit

- Provide complete operation manual to facilitate compliance with pharmaceutical/electronic specifications
- Light weight and ergonomic design suitable for one person to operate
- Cooperate with air vent leak detector to detect the integrity of high efficiency filter
- The total pressure difference and branch pressure difference are displayed to observe the working state of the system in real time
- It will not pollute the environment

function

- **Sampling flow requirements:** 2.83L/min、28.3L/min
- **Average dilution concentration:** 1:70~1:100 (@ $\geq 0.3\mu\text{m}$)

apply

- Concentration test for leak detection of high efficiency filters
- High efficiency filter efficiency evaluation system
- Measurement of high concentration aerosols
- Basic aerosol research
- Clean room self-purification time measurement

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model	SX-D100
Average dilution factor	1:70~1:100 (@ $\geq 0.3\mu\text{m}$)
Adapt to the flow	2.83L/min、28.3L/min
Supporting hose	Indiameter 6mm hose
Power requirement	No need
External dimensions	Length 244 x width 152 x height 220 (mm)
Material quality	SUS304
Weight	3.0kg

