

# Introduction to aerosol generator



model: SX-Q5



model: SX-Q6

Aerosols are collections of liquid or solid particles that remain suspended in a gas environment for extended periods and can be observed or measured.

In the fields of air detection and monitoring, such as the calibration of aerosol measurement instruments, the study of indoor particulate movement characteristics, the investigation of respiratory particle movement patterns, and the testing of air filter efficiency, stable and reproducible monodisperse or polydisperse aerosol generators are essential.

The SX-Q5 is a cold generation type of multi-dispersed aerosol generator.

Based on the LasKin principle nozzle technology, under the action of compressed air, the aerosol raw solution is atomized and foamed by the nozzle. Large droplets are blocked back to the liquid surface by the baffle, while smaller droplets escape with the airflow, forming an aerosol with particle sizes below 1 $\mu$ m.

SX-Q6 is a cold generation type multi-dispersed aerosol generator.

Based on the LasKin principle nozzle technology, it features a small built-in compressed air pump to generate compressed air. The aerosol solution is atomized and foamed through the nozzle. Large droplets are directed back to the liquid surface by baffles, while smaller droplets escape with the airflow, forming an aerosol with particle sizes below 1 $\mu$ m.

All the above products can produce cold occurrence aerosol, which can make the aerosol generator small and light in size, suitable for medical device inspection institutes, centers for disease control and prevention, hospitals, pharmaceutical enterprises, high-efficiency filter manufacturers and other leakage detection of clean rooms and high-efficiency filters.

## merit

- Provide complete operation manual to facilitate compliance with pharmaceutical/electronic specifications
- Cooperate with air vent leak detector to detect the integrity of high efficiency filter
- Air intake pressure regulation, atomization pressure regulation
- It will not pollute the environment
- Q6 built-in compressed air pump, atomization pressure regulation

## apply

- Air filtration equipment testing
- Calibration and detection of aerosol measuring device
- Basic research on aerosols
- Study of inhalation toxicity
- Flow field tracing
- Large wind tunnel studies

# Introduction to aerosol generator

parameter

model	SX-Q5	SX-Q6
Aerosol	DEHS、DOP、PAO	DEHS、DOP、PAO
Number of Laskin nozzles	Six	6/2 (switchable)
Compressed gas	External air source is required	No, built-in air compressor
Spray pressure	0~60kpa	20psi
Aerosol concentration	$0\sim2\times10^{12}$ P/L	100ug/L at a flow rate of 810ft <sup>3</sup> /min
	/	10ug/L at a flow rate of 8100ft <sup>3</sup> /min
Aerosol particle size distribution	$\leq 1\mu\text{m}$	$\leq 1\mu\text{m}$
Aerosol type	Multi-dispersed particles (cold)	Multi-dispersed particles (cold)
Adapt to the system total air volume	$\leq 40000\text{m}^3/\text{h}$	$\leq 40000\text{m}^3/\text{h}$
source	non-essential	AC single phase 220V/50Hz
outline dimension	Length 270 x width 192 x height 372 (mm)	Length 305 x width 290 x height 270 (mm)
material quality	SUS304 stainless steel	SUS304 stainless steel
weight	8.6kg	16.5kg
Air suspension particle output range	/	50~8100ft <sup>3</sup> /min
Concentration of suspended particles	/	100ug/L at a flow rate of 810ft <sup>3</sup> /min
	/	10 ug/L at a flow rate of 8100ft <sup>3</sup> / min



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