



## AEROSOL GENERATOR

# AEROSOL GENERATOR BKF-3601

TDA-4B AEROSOL GENERATOR



Laskin Nozzle method of dust production  
manual adjustable  
large capacity loading dust production

## SPECIFICATIONS

|                                  |                                                             |
|----------------------------------|-------------------------------------------------------------|
| Model                            | BKF-3601                                                    |
| Airborne particle output range   | 50-8,100 cubic feet per minute (1.4-229m <sup>3</sup> /min) |
| Suspended particle concentration | 100 MCG/L at 810 cubic feet per minute flow time            |
| Generation type                  | 1-6 Laskin Nozzle                                           |
| Compressed air                   | 3 to 18 cubic feet per minute flow at 20 psi                |
| Generating particle              | PAO, DOP, polydisperse                                      |
| Gas type                         | Particles of multiple diameters (cold)                      |
| Size                             | (25cm L X 28cm W X23cm H)                                   |
| Weight                           | 7.3KG                                                       |
| Voltage                          | No need                                                     |
| Alt Name                         | aerosol generator                                           |

## APPLICATIONS

The Laskin Spray aerosol generator can produce multiple diameter oil aerosol particles in sub-microns, with concentrations ranging from 10 to 100 µg/L, at flow rates between 50 and 8,100 cubic feet per minute (pressure at 20 psi). Aerosol generators and photometers are used for integrity testing or leak finding tests in efficient air filtration systems. Filter manufacturers use this device to scan ULPA and HEPA (Ultra-High Efficiency, High efficiency) filters to validate their products. The filter demonstrator uses this device to verify that the filter has not been damaged in transit and that it has been installed correctly and without any leaks. In combination with the right suspended particle generator and photometer, filter deficiencies such as pinholes, thin spots, gasket leaks, structural leaks or sealing problems can be quickly and quantitatively detected and corrected to protect products and personnel.

The suspended particle generator has six nozzles and is diluted into 810 cubic feet of air per minute at 20PSI, a gas concentration of about 100 micrograms per liter. Three valves allow the instrument to operate between 1-6 nozzles, providing a wide range of airborne particle concentrations.

## AEROSOL GENERATOR BKF-3901

ZJSJ-012 AEROSOL GENERATOR



### SPECIFICATIONS

|                                       |                                                       |
|---------------------------------------|-------------------------------------------------------|
| Model                                 | BKF-3901                                              |
| Aerosol output volume flow rate       | 1-2.5m <sup>3</sup> /h                                |
| Aerosol production rate               | 0.5-2x10 <sup>13</sup> P/h                            |
| Atomization pressure                  | ≥10Kpa - 80Kpa adjustable                             |
| Particle size distribution of aerosol | 0.02-2um                                              |
| Aerosol type                          | DEHS cold polydispersity, PAO/DOP cold polydispersity |
| Size HxWxL                            | H200xW250xL370 mm                                     |
| Weight(kg)                            | 3kg                                                   |
| External air source (compressed air)  | Clean and stable gas supply less than 0.7Mpa          |
| Alt Name                              | aerosol generator                                     |

### APPLICATIONS

aerosol generator is a portable cold generated aerosol generator developed and produced by our company. This aerosol generator is suitable for air flow rates of ≤50000m<sup>3</sup>/h and can produce a maximum output of 0.5-2 x 10<sup>13</sup> P/h polydispersible aerosol. It can meet the requirements of HEPA filter testing for all small clean units to large clean room air supply systems. Produces a continuous and stable aerosol particle, which is convenient for adding solution.

## AEROSOL GENERATOR BKF-3801

TDA-6C AEROSOL GENERATOR



Laskin Nozzle method of dust production  
Manually adjustable  
Large capacity loading produces dust

## SPECIFICATIONS

|                         |                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Model                   | BKF-3801                                                                                                                         |
| Available flow range    | 50-2,000cfm (1.4-56.6m <sup>3</sup> /min)                                                                                        |
| Occurring concentration | 10ug/L: Flow rate 2000cfm (approximately 56m <sup>3</sup> /min) 100ug/L: Flow rate 2000cfm (approximately 56m <sup>3</sup> /min) |
| Generation of particles | PAO, DOP, polydisperse                                                                                                           |
| Occurrence method       | 2-6Laskin Nozzles                                                                                                                |
| Compressed gas          | Internal air compressor                                                                                                          |
| Voltage                 | 110-240V AC, 50/60Hz                                                                                                             |
| Size                    | 200x280x540mm L W H                                                                                                              |
| Weight                  | 25kg                                                                                                                             |
| Alt Name                | aerosol generator                                                                                                                |

## APPLICATIONS

This is a portable aerosol generator with a compressed air source in the body. Aerosol PAO or DOP can be produced from 2-6 Laskin Nozzles without the need for an external air source.

## AEROSOL GENERATOR BKF-3701

TDA-5B AEROSOL GENERATOR



Wide airflow range (500-65,000CFM)  
Adjustable dust concentration (0-100 micrograms per liter)  
Large capacity dust production (unpacking can be detected for 4 hours)

## SPECIFICATIONS

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| Model                            | BKF-3701                                           |
| Airborne particle output range   | 500-65,000 cubic feet per minute                   |
| Suspended particle concentration | 100 MCG/L at 6,500 cubic feet per minute flow time |
| Generation type                  | Heating chamber                                    |
| Compressed air                   | No need                                            |
| Compressed gas (inert gas)       | 20 cubic feet per hour at 50psi                    |
| Gas type                         | Particles of multiple diameters (cold)             |
| Size                             | (35cm L X 25cm W X25cm H)                          |
| Weight                           | 9.1 KG                                             |
| Voltage                          | 110 VAC / 60 Hz or 220 VAC / 50hz                  |
| Alt Name                         | aerosol generator                                  |

## APPLICATIONS

The suspended particle generator is designed to provide excellent performance and ease of operation. It is an ideal tool for demonstrating or testing HEPA efficient filtration systems. It needs to be installed in an air flow system ranging from 500 to 65,000 cubic feet per minute, and an inert gas source and a 120/240 volt, 750 watt power supply environment.

Has control and display functions on the front panel. This is a high-capacity suspended particle generator that can operate for 4 hours without refilling.

Can produce a uniform size distribution of airborne particles, the principle is by adding a certain amount of suspended particle source liquid in a large hot area, the liquid is evaporated and recombined, at only 5 pounds of pressure, through a small amount of inert gas sent to form a variety of diameters of airborne particles. When combined with photometers such as TDA-2G or TDA-2H, TDA can provide enough suspended particles to measure filtration systems (flow rates range from 500 to 65,000 m<sup>3</sup> / min) or concentrations of less than 100 MCG/L, increasing the sensitivity of the photometer can also test for leakage.



**Biolab Scientific Ltd.**

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada

Email: [info@biolabscientific.com](mailto:info@biolabscientific.com) | Website: [www.biolabscientific.com](http://www.biolabscientific.com)