



HT-10010 Non-woven Fabric High Voltage Electrostatic Generator System



Product Introduction

Alex power according to the needs of customers, for professional development and design the mask production non - woven fabric high voltage electrostatic generator system, the sustainable production of high voltage electrostatic equipment, main effect is to mask non-woven melt-blown electrostatic, make masks on average particle diameter of (3 ± 0.3) microns of staphylococcus aureus aerosol filtration efficiency of not less than 95%. Non - woven fabric high voltage electrostatic generator system plays an indispensable role in masks production line.

Principle of melting spray filter. The main material of melt-spray non-woven cloth is polypropylene, which is a kind of ultra-fine electrostatic fiber cloth, which can capture dust. The droplets containing pneumonia virus will be adsorbed on the surface of the non-woven cloth by static electricity when they are close to the melt-sprayed non-woven cloth and cannot pass through. That's how the material keeps out germs. After the dust is captured by the ultrafine electrostatic fiber, it is very difficult to be separated from the cleaning, and washing will also be destroyed the ability of electrostatic dust collection. So the mask can only be used once.

Melt-sprayed nonwoven fabrics require the addition of a trace substance called an electret, which is prone to static electricity. The nonwoven fabric can be charged for a long time by performing a "corona discharge" on it via an electrostatic electret device.

Electret processing. Electret refers to the dielectric material with the function of long-term charge storage. It has the advantages of high efficiency, low flow resistance, antibacterial, energy saving, etc. Besides ensuring the physical collision barrier effect of conventional filter material, it increases the electrostatic adsorption effect. In treatment makes the fiber filter material with charge, combining with the characteristics of melt-blown superfine fiber density, therefore charged fibers formed a large number of electrodes, charged fiber can not only like a magnet to attract environment most of the charged particle, at the same time, it can be not part of the charged particle polarization, and some of the smaller particle size of pollutants, even the virus the nanoscale material can also be for electrostatic adsorption or charge repel cut off.

The product names : non-woven fabric high voltage electrostatic generator system、Melting and spraying cloth electrostatic electret equipment, non-woven high voltage electrostatic generator, mask electrostatic generator, melting and spraying cloth electrostatic generator, electrostatic generator

Product Parameters

specifications		10/100
capacity		10kVA
High voltage	AC	100kV
	DC	140kV
High voltage current		100mA
Low voltage input	voltage	200V
	current	50A
Variable ratio (height/meter)		1000
Temperature rising °C (30 minutes)		10

Product features

- 1、 The instrument has high safety and comprehensive protection.
- 2、 The instrument has good electrical performance, strong moisture resistance, no leakage, good performance and high precision.
- 3、 The instrument can attach static electricity to the raw material of the mask, so that the filtration efficiency of the mask against the staphylococcus aureus aerosol with the average particle diameter of (3 ± 0.3) μm is not less than 95%.
- 4、 Adopt special high-voltage power supply, digital control mode, all abnormal slow start, nanosecond arc pull response ability, ensure the melting and injection production line no fault, all-day operation.
- 5、 Small energy storage, discharge ignition will not cause damage to non-woven fabric; Nanosecond pull-arc response capability ensures fast restart of power supply within 20ms to ensure uniform electrification effect. High stability makes the ionization effect more stable.
- 6、 It has the advantages of high efficiency, low flow resistance, antibacterial, energy saving and so on. On the basis of ensuring the physical collision barrier effect of conventional filter material, it increases the electrostatic adsorption effect.