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**INDUSTRY STANDARD OF THE  
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**Technical requirement for environmental protection product.  
Electrostatic-fabric integrated precipitator  
(English Translation)**

**Issued on: January 1, 1970**

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## Foreword

In order to implement the "Environmental Protection Law of the People's Republic of China", to prevent and control air pollution, to standardize the design, production, manufacture and safety of electric bag composite dust collectors.

This standard is formulated and accepted.

This standard specifies the technical requirements, test methods, inspection rules, marking, packaging, transportation and storage of the electric bag composite dust collector.

This standard is the first release.

This standard was formulated by the Science and Technology Standards Department of the Ministry of Environmental Protection.

This standard was drafted. China Environmental Protection Industry Association, Fujian Longjing Environmental Protection Co., Ltd.

This standard was approved by the Ministry of Environmental Protection on July 31, 2012.

This standard has been implemented since November 1, 2012.

This standard is explained by the Ministry of Environmental Protection.

Environmental protection product technical requirements electric bag composite dust collector

## 1 Scope of application

This standard specifies the terms and definitions, naming, basic requirements, performance requirements of the electric bag composite dust collector (hereinafter referred to as the dust collector).

Test methods, inspection rules, marking, packaging, transportation and storage.

This standard is applicable to electric bags that are installed in a box with an electric field and a filter bag area.

Composite dust collector.

## 2 Normative references

This standard refers to the terms of the following documents. For undated references, the valid version applies to this standard.

GB 150 steel pressure vessel GB 191 packaging storage and transportation icon GB/T 700 carbon structural steel GB/T 985.1 Recommended groove for gas welding, electrode arc welding, gas shielded welding and high energy beam welding GB/T 985.2 recommended groove for submerged arc welding GB 4053.1 Fixed steel ladders and platforms - Safety requirements - Part 1 GB 4053.2 Fixed steel ladders and platforms - Safety requirements - Part 2 GB 4053.3 Fixed steel ladders and platforms - Safety requirements - Part 3. Industrial protective railings and steel platforms GB 4053.4 fixed industrial steel platform GB/T 6388 transport packaging receipt and delivery mark GB/T 9969 General guidelines for the use of industrial products GB 12348 Environmental noise emission standards for industrial enterprises GB/T 13277.1 Compressed air Part 1. Contaminant purification level GB/T 13306 signage General technical conditions for GB/T 13384 mechanical and electrical product packaging GB/T 13931 electrostatic precipitator performance test method GB 50169 Electrical installation engineering grounding device construction and acceptance specifications HJ/T 320 Environmental Protection Product Technical Requirements Electrostatic Precipitator High Voltage Rectifier Power Supply HJ/T 324 environmental protection product technical requirements filter material for bag filter HJ/T 325 environmental protection product technical requirements bag filter bag frame HJ/T 326 environmental protection product technical requirements film filter for bag filter HJ/T 327 environmental protection product technical requirements bag filter bag HJ/T 328 Environmental Protection Products Technical Requirements Pulse Injection Bag Type Dust Collector JB/T 4711 Pressure Vessel Coating and Transport Packaging JB/T 5908 Electrostatic precipitator main parts sampling inspection and packaging transportation storage specifications Technical requirements for welding parts of JB/T 5911 electrostatic precipitator JB/T 5917 filter bag frame for bag filter JB/T 8471 bag filter installation technical requirements and acceptance specifications JB/T 8532 pulse blowing bag type dust collector JB/T 8536 electrostatic precipitator mechanical installation technical conditions Pressure Vessel Safety Technology Supervision Regulations Quality and Technical Supervision Bureau Pot [1999] No. 154

## 3 Terms and definitions

The following terms and definitions apply to this standard.

### **3.1 Electric bag composite dust collector electrostatic-fabric integrated dust collector**

Install an electric field zone and a filter bag zone in a box (the electric field zone and the filter bag zone can have multiple configurations), and the static electricity and the filter are divided.

A dust collector that combines dust technology.

### **3.2 Electric field area electric field area**

At the same time, the anode system and the cathode system are installed, and the electrostatic dust removal principle is applied to pre-charge and pre-dust the dust in the dust-containing gas.

region.

### **3.3 Filter field area**

A filter bag and a cleaning device are installed to filter the areas of charged dust and uncharged dust that are not trapped by the electric field.

### **3.4 Electric field electric field**

An area consisting of a set of anode and cathode systems and a high voltage power supply along the direction of the gas flow.

### **3.5 Channel width passage width**

The lateral dimension of the vertical airflow in the channel.

### **3.6 Plate effective area plate projected area**

The projected area of the plate on the center plane of the channel. It can be calculated by the formula  $A=2N \times H \times L$ , where  $A$  is the effective area of the plate, single Bit  $m^2$ ;  $H$  is the effective height of the electric field. that is, the height of the anode plate with electric field effect;  $L$  is the effective length of the electric field. that is, in the direction of the straight line along the airflow the total length of the plate, in  $m$ ;  $N$  is the number of channels. that is, the gas passage formed by the adjacent two rows of anode plates is called the channel, and the number of channels in the box is called Number of channels, in units.

### **3.7 Specific collection area**

The ratio of the effective area of the plates to the amount of dust-laden gas under working conditions. That is  $f = A / Q$ , where  $f$  is the dust collection area, unit  $M^2/(m^3/s)$ ;  $A$  is the effective area of the plate, the unit is  $m^2$ ;  $Q$  is the amount of dusty gas treated by the dust