

Filter Bags for Dust Collectors Systems.

The filter bags are the key elements which determine the dust collecting efficiency and working temperature; Renewal of filter bags creates big cost in the maintenance of bag houses. The qualified filter bags can last two years or more.

1. Four factors that affect the service life of filter bags

1.1 *Appropriate Filter Material Selection*

Temperature, moisture level and chemical characteristics of air, as well as particle size, weight, shape, abrasive behavior, dust concentration, filtration velocity, cleaning style, emission concentration and working system of baghouse should be considered for media selection. In general, needle felt bags are used in pulse jet baghouse. Woven-fabric bags are used in section reverse flow or mechanical shake baghouse (Attached Appendix2 for performance of different filtration media).

1.2 *Reasonable Structure Design*

The filter bag structure should meet the requirement of filtration and dust collecting in the corresponding baghouse. At the same time, it should be easy to install, have good sealing while having relevant filtration area and condition, and be easy to be cleaned with the least wearing. It should good fit to the related parts. For example, the Synthetic fabric bag for external filtration should have gap with cage, the fiberglass bag must cling to the cage of which the space between vertical wires are smaller than that of synthetic fabric bag cage. The bag tension has to be considered in internal filtration bag.

1.3 *Excellent Sewing Skills*

Advanced technology. The dimension of bag is up to the drawing. The shrinkage should be considered based on both working temperature and filter media.

Full Sets of Sewing equipments. The stitch arrangement is reasonable. Neither skip stitch nor broken stitch is allowed.

At the same time, the sewing thread meets the requirement.

All the accessories should be excellent and meet the requirement. In order not to damage the bag, any burrs or damaged parts will not be allowed.

No damage can be found in the whole bags, such as hole,

slip yarn, stain etc. Appropriate package should be guaranteed. Neither damage nor damping can occur during shipment. In the meantime, heavy pressure on the glass-fiber bags or too long storage will affect the lifetime

1.4 *Appropriate Usages of Filter Bags* Accurate and Careful Installation

Method for external filtration style

Bag top and tube sheet hole should be sealed and fixed firmly.

Filter bag is suspended vertically under the tube sheet hole.

Adjacent bags cannot be collided with each other.

Filter bags must fit to the cages, which are straight without burrs.

Method for internal filtration style

Cap is installed on the top of the bag and suspended on the beam of the collector through the hang setting. The bottom should be sealed and fixed firmly.

The tension must be adjusted to a specified figure during installation to prevent the bag from falling down and loosing during work, and should be adjusted again after being used for the first week and first month.

All the accessories (Anti-collapse ring) should be well fitted each other. Neither burrs nor broken parts can be found.

Reliable and Effective Dust Cleansing

During work, dust area will rise gradually, with an increased pressure difference. So the pressure difference should be kept within a specified range by Avoiding unexpected abnormal conditions.

Unexpected abnormal conditions should be prevented during the operation, such as steep rise in temperature, or invasion of corrosive air, or sudden fall to below dew point in air temperature etc. These factors can cause the change of temperature, moisture, chemical corrosion,

Equipment Maintenance

Damaged filter bags should be discovered and replaced timely. The change of pressure difference of baghouse should be observed to eliminate troubles in dust cleaning and to check the normal operation of cleaning system. In addition, cleaning cycle or working system of baghouse.

2. Filter Bags Designs

Filter Bag Top Designs



Grooved Snapband



Ring



Ring



Felt Flang



Flange with ring



Gasket



Hem



Raw Edge



Plain Snapband



Rope Ring



Reeve



Button

Filter Bag Bottom Designs



Reinforce Cuff



Round Bottom



Flat Bottom



Fixable Bottom



Square Strap



Plain Strap



Adjustable Strap

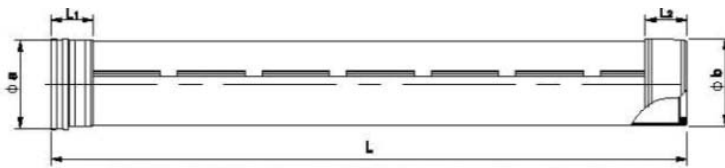


“ZC”Kind Bottom

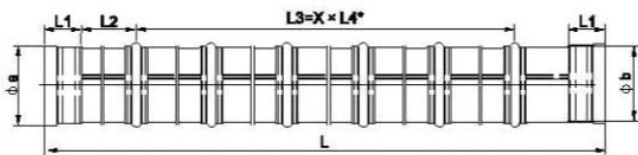
3. Recommended Dimension

Round Style (External Filtration)	Diameter(mm)	Length(mm)			Application
	120	2000	2400	2800	
130	3200	3600	4000		
152	4400	4800	5200		
200	5600	6000			
Round Style (Internal Filtration)	Diameter(mm)	Length(mm)			Section Reverse Air Flow Bag House
	180	6000	8000		
	250				
	300	10000	12000		
Flat Style	Diameter(mm)	Length(mm)			Reverse Air Flow Bag House
	800	2000	3000	4000	
	900	5000	6000		
Envelop Style	Length, Width, Thickness(mm)				Side Insert Bag House
	1500x7500x25				

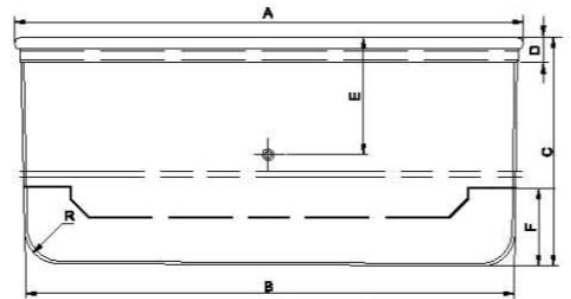
4 Sketches of Filter Bags



圓袋(外濾式)外形圖 Round Style(External Filtration) Sketch



圓袋(內濾式)外形圖 Round Style(Internal Filtration) Sketch



信封型袋外形圖 Envelope Style Sketch