



SHIAU SUNG ENVIRONMENT CO., LTD.



AIR POLLUTION CONTROL



SHIAU SUNG

Company Profile

History/

For 20 years, since its foundation in 1996, SSE has been offering and still continues to offer its customers total support for the Air Pollution Control System and Consumables.

Philosophy/

As our insistence of Integrity, Quality and Service, we are able to solve the most serious air pollution problems of our customers efficiently and with reliability. The result: Customer Satisfaction for everyone to see.

Customers/

Asphalt, Incinerator, Power plant, Brick Factory, Boiler, Steelmaking...





Company Products



Industrial Bag Filter

- ◆ PTFE
- ◆ Ryton
- ◆ NOMEX
- ◆ Polyester



Industrial Cage

- DCE Vokes Cage
- Inverted Venturi
- Grooved Flange with Clip
- Two Piece Cage
- Grooved Flange/Extended Venturi



Kitchen Grease/Odor/Smoke Control System

- ✓ High Efficiency
- ✓ High Safety
- ✓ No Water
- ✓ No Power
- ✓ No Fault





Industrial Bag Filter Quality Assurance

As to support the best bag filters to our customers. We are serious to choose the material and every step on making the bag filters.



When we choose the felt , we always pay the most attention to its quality.

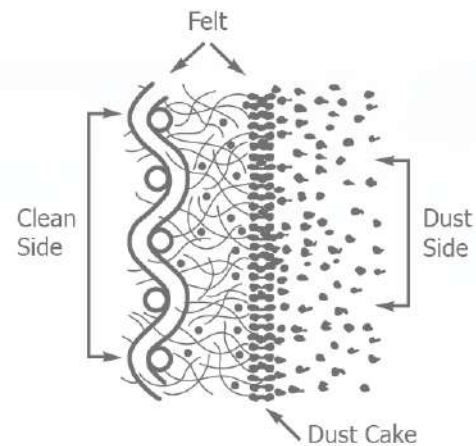
Whenever we buy the felts and sewing thread, we will randomly take a sample from these, and send it to TTRI to do the quality test.

If the filter is used in the acid/base environment, we always make the filter by using PTFE sewing thread.

As our experience over 20years, bag filters used on different industry will be easy broken at different parts. So we will enhance the parts when we are making the filters.



Bag Filter Designs-1



The main mechanism to remove dust is the dust cake. When the filter is clean, the collection efficiency is low. As the dust cake is formed, the collection efficiency will become high.



We can make many types of the bag filter to fit all the baghouse.

- 1 Envelope-Shaped**
- 2 Raw Edge Top Bag**
- 3 Laceband Top Bag**
- 4 Snapband Top Bag**
- 5 Flange Top Bag**



Bag Filter Designs-2

As each baghouse works on different peculiarities and operates, it is important to choose the fabric of the filter.

	PE	NOMEX	RYTON	TEFLON
Fiber Material	Polyester	Aramid	P.P.S	PTFE
Abrasion	◎	◎	○	○
Hydrolysis	△	○	○	◎
Alkaline	×	○	◎	◎
Mineral Acid	×	×	◎	◎
Oxygen	◎	◎	△	◎
Temp.	130 ° C	200 ° C	180 ° C	250 ° C

Besides the fabric, the treatment of the filter is also important. The suitable treatment is helpful for the collection efficiency and the life of filter.

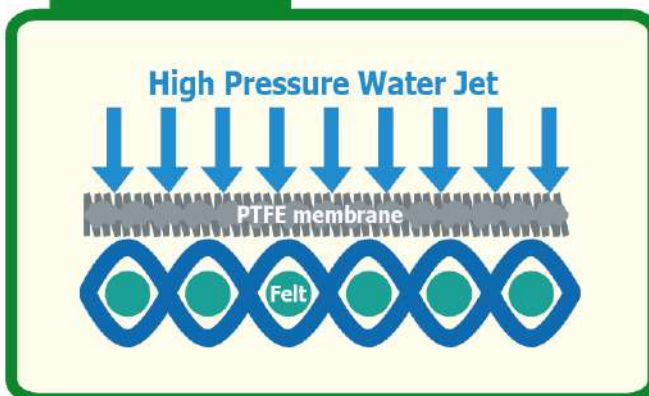
	Temperature Resistance	Collection Efficiency	Self-Cleaning Ability	Chemical Resistance	Water/Oil Repellent
Heat Set	◎				
Calendared/singed			○		
PTFE Coating		○		◎	
PTFE Dipping				◎	◎
PTFE Membrane		◎	◎		



High-performance Filter

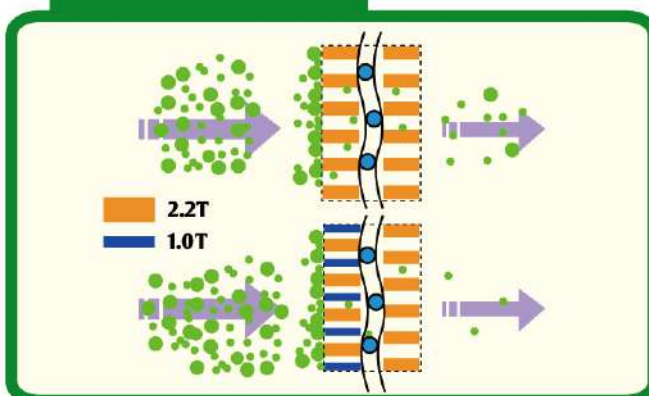
High-Performance Filter means the filter have higher chemical resistance, physical resistance, dust collection efficiency, life or lower pressure drop than normal filters.

ADMIREX™



Higher Collection Efficiency
Longer Life
Lower Pressure drop

Ultra Fine Fiber



Higher Collection Efficiency
(Especially for Fine Particles)
Longer Life

Protex® KE



Temp. Resistance: 850 °C
TSP Emission: <1 mg/Nm3
Sulfur/Nitrate Reduced



Bag Filter Cage

When we design the baghouse, it is important to consider the moisture, A/C ratio, particle diameter...etc., to choose the types of cage top.

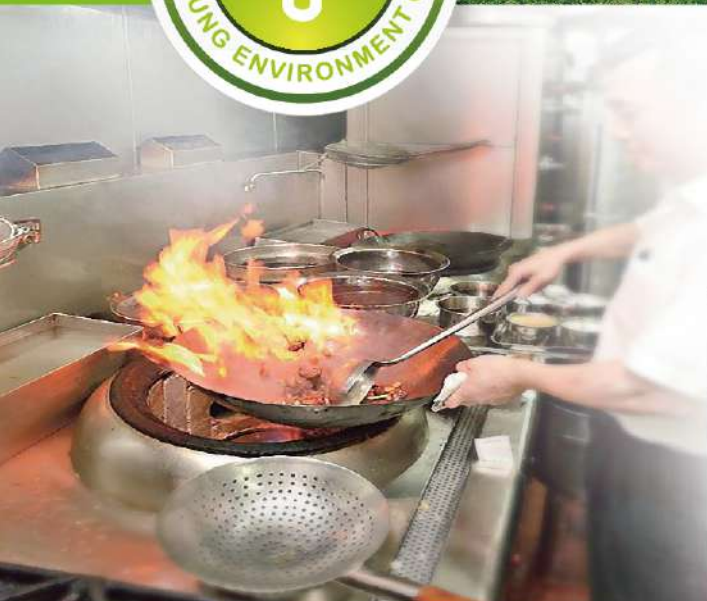
Types	Features	Advantage	Disadvantage	Image
Envelope-Shaped	Rectangle	Smaller Baghouse	Hard To Clean	
Flange with Clip	With Clip	Easy To Install	Easy To Broken	
Two Piece Cage	Linked By Two Piece	For Longer Filter	Easy To Broke The Bag Filter	
Venturi	With Venturi	Enlarge The Pulse	Cannot Clean The Upper Of The Bag Filter	
Inverted Venturi	With Venturi	Enlarge The Pulse	Larger Baghouse	

Besides the cage top, there are many different specification can be choose, like material, coating, wire diameter...

Customized	Species	Effect
Material	Galvanized Steel, SUS304...	Chemical Resistance
Coating	Epoxy, Fluorocarbons...	Chemical Resistance
Wire Diameter	3.2, 4.0mm, ...	Life

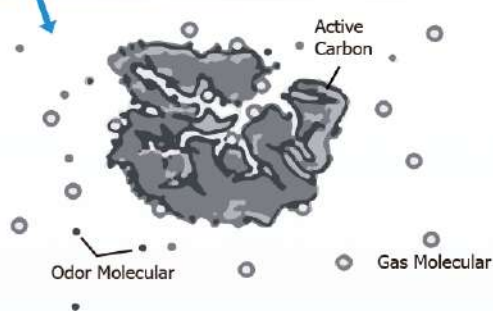
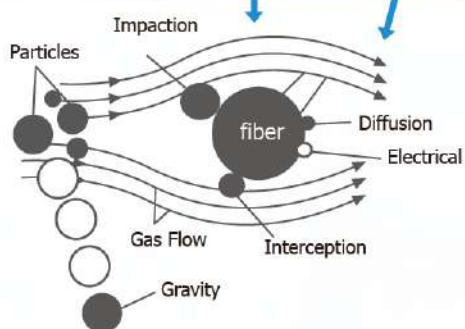
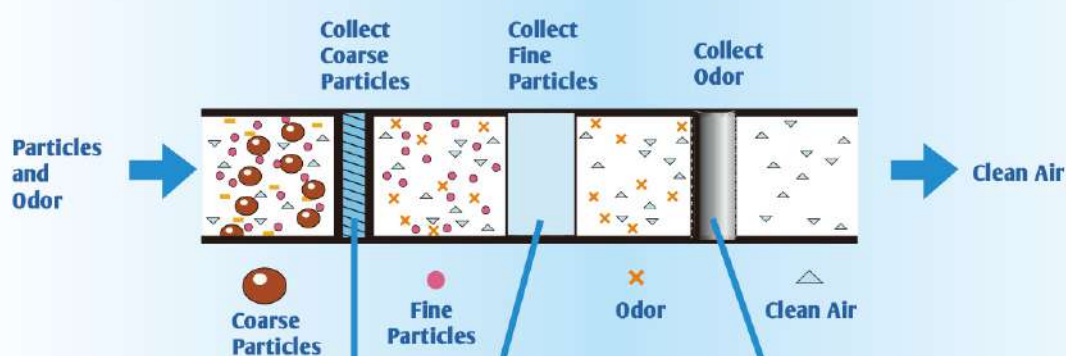


Commercial Kitchen Grease/Smoke and Odor Control System



- ✓ **High Efficiency**
- ✓ **High Safety**

- ✓ **No Water**
- ✓ **No Power**
- ✓ **No Fault**



Size	Unit	Inlet	Outlet	Efficiency	Instrument
TSP	$\mu\text{g}/\text{m}^3$	2443.62	48.06	98.03%	MOUDI
PM ₁₀	$\mu\text{g}/\text{m}^3$	2432.93	47.53	98.05%	MOUDI
PM _{2.5}	$\mu\text{g}/\text{m}^3$	2376.82	46.66	98.04%	MOUDI
PM ₁	$\mu\text{g}/\text{m}^3$	1026.80	42.09	95.90%	MOUDI

	Inlet	Outlet	Efficiency	Test Method
Odor	63	13	79.4%	NIEA A201.14A
Formaldehyde	3.720ppm	1.220ppm	67.0%	VOC Sensor
Acetone	4.262ppm	1.273ppm	70.1%	VOC Sensor



Commercial Kitchen Grease/Smoke and Odor Control System

The air pollution problem from commercial kitchens has become worse and worse in these recent years

As the air pollution from cooking is much different from other normal dust. It is hard to use the traditional machine to control it. So we design a new machine to solve this new problem.

Item	Filtration	Electrostatic Precipitation	Wet Scrubber
Grease/Smoke Control Eff.	◎	◎	○
Odor Control Eff.	○	✕	△
Safety	◎	△	○
Silence	◎	○	△
Initial Cost	○	○	△
Operation Cost	△	△	○

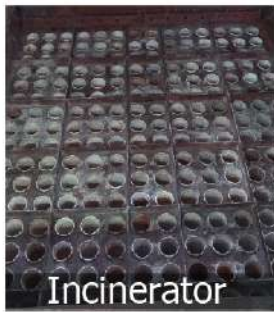


Model	TF	MF	STF	CF
Filter Type	Coarse Filter Fine Filter Chemical Filter	Fine Filter Simple Chemical Filter	Coarse Filter Fine Filter Chemical Filter	Chemical Filter
Grease/Smoke Control Eff.	>98%	>80%	>90%	-
Odor Control Eff.	>70%	>30%	>55%	>60%
Air Flow, CMH (Suggestion)	1800-3300	1800-3300	500-800	1800-3300
SIZE: WxHxL, mm	600x600x940	600x600x470	600x600x470	600x600x940
Weight (Including Filter)	40kg	20kg	20kg	15kg



Success Case

Bag Filter



Bag Filter Cage



Equipment- Bag house



Commercial Kitchen Grease/Smoke and Odor Control System





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