

# INTRODU<sup>●</sup>DUCTION



**ACO**

Aero COncept

<http://www.acokk.co.jp>

**ACO Co., Ltd.**

# ◆◆◆ A message from the President ◆◆◆



## **Our businesses:**

For over 38 years, ACO Co., Ltd. has been a leading innovator in the manufacture of powder & particle handling and environmental control equipment. In particular, ACO specializes in the fields of blending, separation, dust removal and dust collecting. Furthermore, ACO's "Wet Scrubber" is used extensively in environmental hazardous gas absorption.

## **Our policies ensure customer satisfaction:**

### **Superior products**

We produce simply manufactured, easy to maintain equipment.

### **Cost Reduction**

We reduce customer costs through our unique technology.

### **Specific Proposals:**

We offer appropriate specifications quickly to fit the customer's plan.

### **No Delivery delays**

We strictly adhere to the determined delivery date.

Sincerely yours,  
Katsumi Kono  
ACO Co., Ltd.



President  
**Katsumi Kono**



Founder  
**Motomi Kono**

# ◆◆◆ Corporate Overview ◆◆◆



-Data as of March 2015 (118JPY/ 1USD, 135JPY/ 1EUR)

Name : ACO Co., Ltd.  
Location : <Head office>  
1-1-40, Imagawa, Urayasu, Chiba 279-0022 Japan  
TEL:+81-47-352-4761 FAX:+81-47-354-5268  
<Osaka branch>  
3-24-1, Taramicho, Suita, Osaka 564-0062 Japan  
TEL:+81-6-6368-9551 FAX:+81-6-6368-9552  
<Iwata factory>  
500-1, Higashihiramatsu, Iwata, Shizuoka 438-0211 Japan  
Founded : February 14, 1977  
Capital Stocks : 50,000,000 JPY  
Net Asset : 1,878,000,000 JPY  
Representative : Katsumi Kono, President  
Number of Employees: 77  
Banks : Bank of Tokyo-Mitsubishi UFJ ,Ltd. Urayasuekimae branch  
Mizuho Bank, Ltd. Nishikasai Branch



Head office

## ◆ Iwata Factory ◆



Rooftop solar power system

# Running cost reduction, long service life,

## Powder & Dust Collection

Any of 4 types of bag houses can be chosen according to the application.



### Type1. Pleated Bag Filter

Comes with a filter made of Polyester or PPS media pleated and formed into a cylindrical shape.

#### Merits:

- Compact & cost saving compared with Tube Type Bag Filters.
- ① Operation space 60% cut
- ② Initial costs 30% cut
- ③ Running costs 30% cut
- Temperature range up to 150°C



### Type2. Tube Type Bag Filter

Tube type filter made from various felt media.

#### Merits:

- 2 types of filter installation:
  - Band Type
  - Top Removal (TR) Type
- Various filter media available
- Temperature range up to 250°C



### Type3. Board Type Pleated Bag Filter

Board shaped pleated filter made from polyester media

#### Merits:

- Suitable for installation in low clearance buildings
- Compact casing size compared to Pleated Bag Filter with the same filter area
- Temperature range up to 90°C

### Type4. Board Type Bag Filter

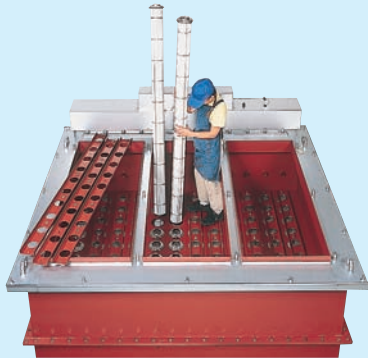
Board type filter made from various felt media

#### Merits:

- Suitable for installation in low clearance buildings
- Various filter media
- Compact casing size compared to Tube Type Bag Filter with the same filter area
- Temperature range up to 250°C

*simple handling and cleaning*

*Leave it all ACO's technology.*



Type 1



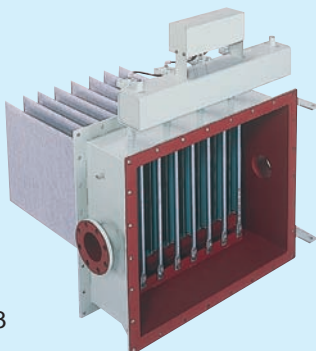
Type 1



Type 1



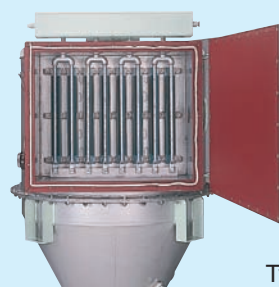
Type 1



Type 3



Type 3



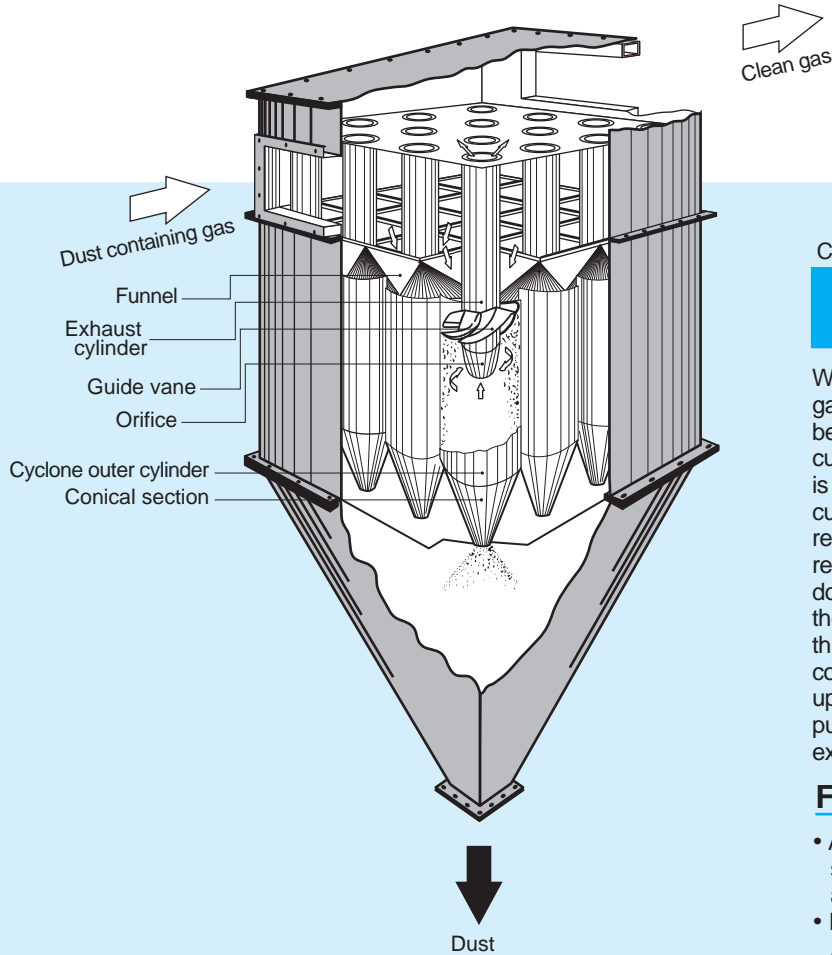
Type 4

## ACO Pleats Filter

ACO Pleats Filter collects fine to large size powders using various filter media.

### Features

- Capable of collecting 99.999% of particles of even less than  $1\mu\text{m}$  size
- Capable of continuous operation even in heavy dust laden gas conditions
- Can be used for handling super-fine particles, corrosive gases and high-temperature gases. Filters are selected according to the customer's specific applications



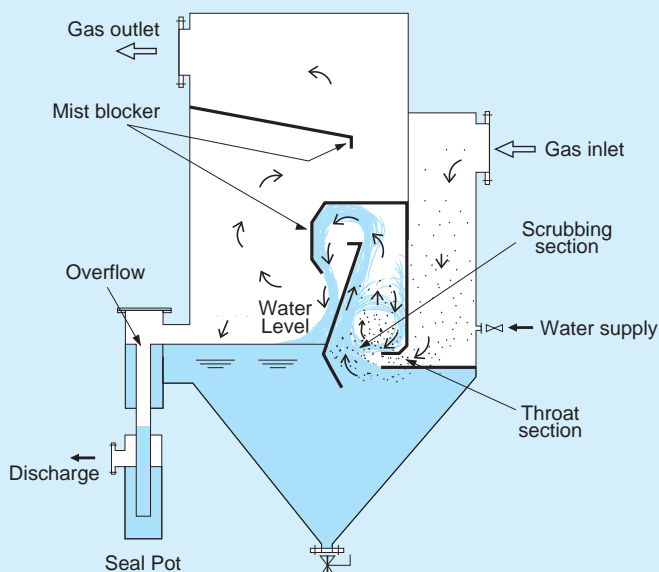
Complete Collection of 12µm Particles

## ACO Cyclone

When passing through the guide vane, gas laden dust is accelerated to become a strong downward whirling current in the cyclone. Subsequently, it is reversed to become an upward current in the conical section. As a result of strong centrifugal force, dust reaches the outer cylinder and moves downward via the whirling current. It is then discharged into the hopper through an opening at the bottom of the conical section. Furthermore, the upward current is discharged as purified gas through the orifice and the exhaust cylinder.

### Features

- Aerodynamically designed stainless steel guide vane prevents particle adhesion and wear.
- No dust accumulation  
A funnel is provided, and flat sections within the cyclone elements have been eliminated.
- An air jet cleaning device can be built-in.



## ACO Scrubber

### Features

- Simple structure
- No pump required
- Low pressure loss
- No moving parts
- Maintenance free
- Affordable operation

### Applications

- Dust Collection
- Gas absorption
- Deodorization

# ACO Technology employs aerodynamic principles

## Blending

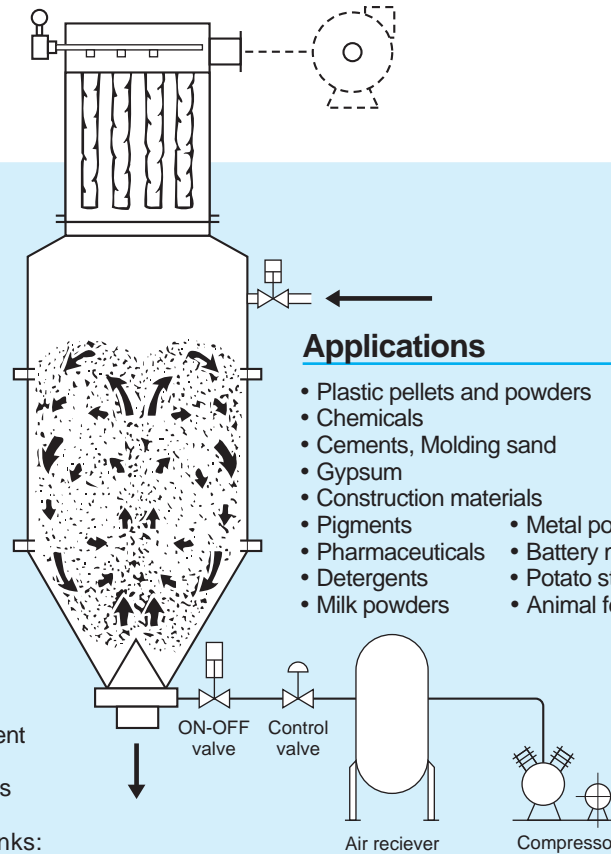
Powder particles air blending

### ACO Air Blender

ACO Air Blender employs a spouted bed mixing system. By blowing compressed air (for 1~5 seconds/blow) intermittently from the bottom of the tank, powder & particles are fluidly spouted in the tank. Within 10 air blows, better blending results than other conventional mechanical blenders are achieved. Blown air is discharged through ACO's specialized filter on the top.

#### Features

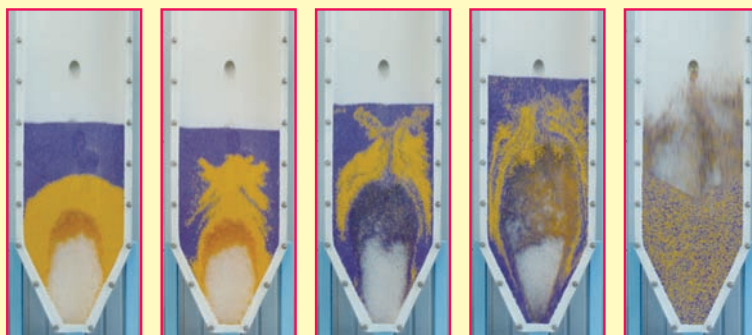
- Can receive material via pneumatic conveying system
- Short time blending (30 to 60 seconds), excellent blending results
- Safe, no rotator parts, no contamination worries
- Complete discharging
- Order made custom built large or small tanks: 0.03m<sup>3</sup> ~ 600m<sup>3</sup>
- Simple automatic operation (charging, weighing, mixing and discharging)



#### Applications

- Plastic pellets and powders
- Chemicals
- Cements, Molding sand
- Gypsum
- Construction materials
- Pigments
- Pharmaceuticals
- Detergents
- Milk powders
- Metal powders
- Battery materials
- Potato starches
- Animal feed

#### Blending process



Time



100TON/Batchx4  
Air blend silo for special cement

*to produce simple, reliable component systems*

**Separation**

**3-step-separation,  
99.9% removal**

**Patented in:** Japan, USA, EU, China, Taiwan, Korea

Pneumatic dust removal system

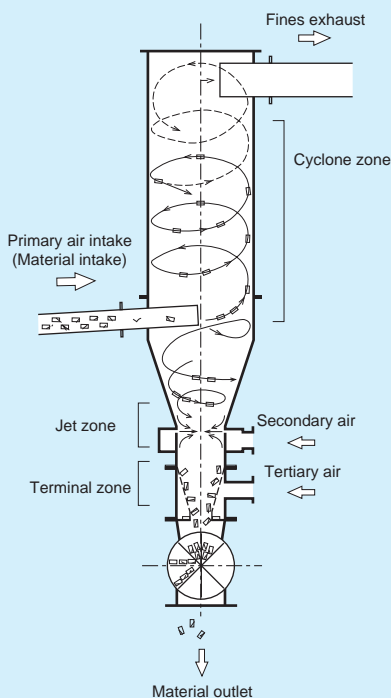
**ACO Jet Separator**

**Applications**

- Plastic pellets, crushed recycled plastics
- Agricultural and industrial chemicals, fertilizer granules, food products, pharmaceuticals

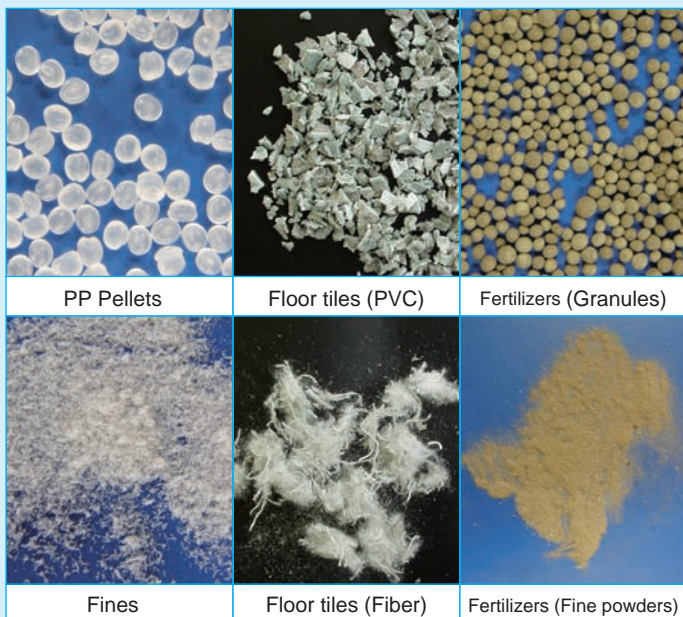
**Proclamation**

“We proclaim our ACO Jet Separator to be the world’s finest dedusting machine.”



Sanitary type

**Samples**



CFS-900-1200 Test machine





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**Head office** 1-1-40, Imagawa, Urayasu, Chiba 279-0022 Japan

**Osaka branch** 3-24-1, Tarumicho, Suita, Osaka 564-0062 Japan

E-mail: [info@acokk.co.jp](mailto:info@acokk.co.jp)

<http://www.acokk.co.jp>