



PULSE JET TYPE DUST COLLECTOR

30 Times Per Hour of Air Exchange
Makes Cleanroom Full of Clean Air.
Max 12000m³/h

NINGBO NINHUA INTERNATIONAL CO., LTD
ACMAN ENVIRONMENT (HANGZHOU) CO.,LTD
Tel:19550289881
Web: www.acman-dustcollector.com



Big Airflow, High Pressure

10 minutes, Refresh All Air In Cleanroom

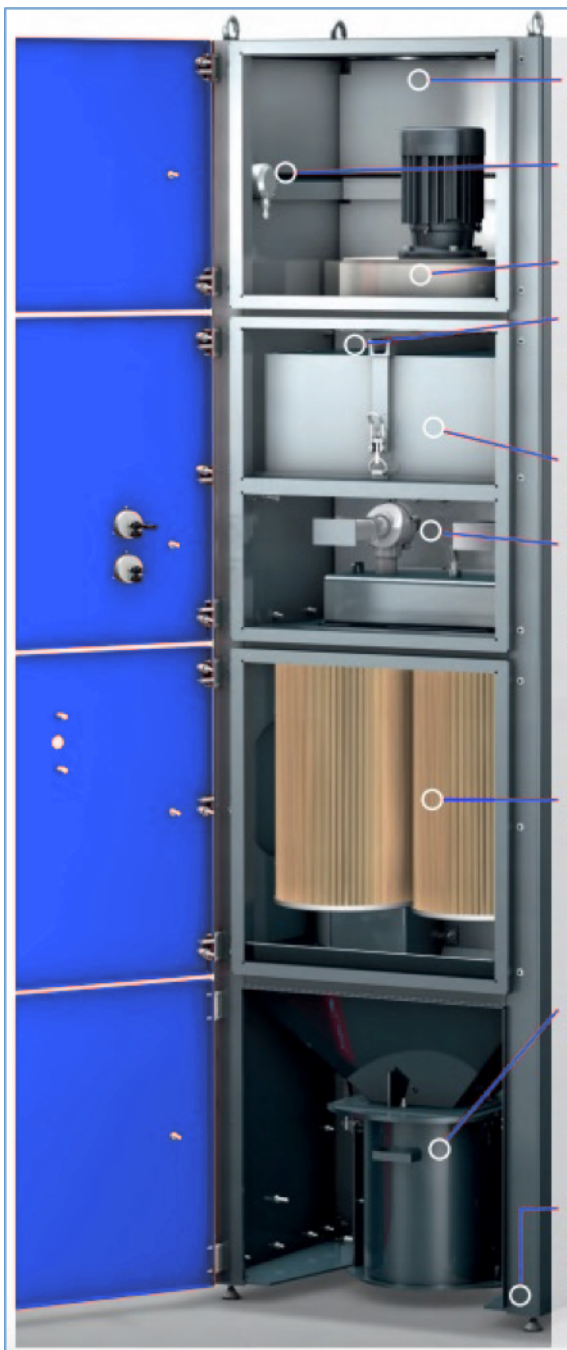
99.99 %

Efficiency

1-3 μm

Dust (d50)

- ✓ Compact Design, Less Installation Space Taken
- ✓ $\geq 1\mu\text{m}$, Efficiency Reach 99.9%
- ✓ More Filtration Area, No Risk of Block;
- ✓ Multiple Filter Material Choices, Fitting for different Dusts;
- ✓ Remote/local Control, Convenient Operation;
- ✓ Big range of Airflow, Meeting different working process;
- ✓ ISO9001/cGMP manufactures standards, Safety First



SOUNDPROOF COVER:

Noise $\leq$ 75db

PRESSURE DIFFERENTIAL GAUGE

BLOWER: Big airflow
High Pressure

2ND FILTRATION:
HEPA, H13 available
(not standard)

PULSE-JET SYSTEM:
Self-Cleaning

PLEATED FILTERS:
efficiency F9, Big
filtration area

DUST BIN:
Dust drawer/Bin
(option)

ACMAN TOKA——HVAC Ventilation Dust Collector

MODEL	Airflow m3/h	Area m2	Full Pressure pa	Power kw	Compress Air	Noise db
TOKA-5B-T	500-900	12	1780	0.75	0.4-0.6Mp	65
TOKA-10B-T	900-1100	12	2040-1780	1.1	0.4-0.6Mp	67
TOKA-15B-T	1400-1600	18	2040-1780	1.5	0.4-0.6Mp	70
TOKA-25B-T	1688-2476	30	2150-1820	3	0.4-0.6Mp	73
TOKA-30B-T	2664-3405	30	2700-2200	4	0.4-0.6Mp	73
TOKA-40B-T	3786-4527	36	2700-2200	5.5	0.4-0.6Mp	75
TOKA-60B-T	4973-6457	48	2700-2200	7.5	0.4-0.6Mp	75
TOKA-80B-T	7081-8489	60	2700-2200	11	0.4-0.6Mp	78
TOKA-100B-T	8490-10455	75	2790-2020	15	0.4-0.6Mp	80
TOKA-120B-T	10400-13455	90	2790-2020	15	0.4-0.6Mp	85



FEEDING



PACKAGING



PNEUMATIC CONVEY



METAL PROCESS



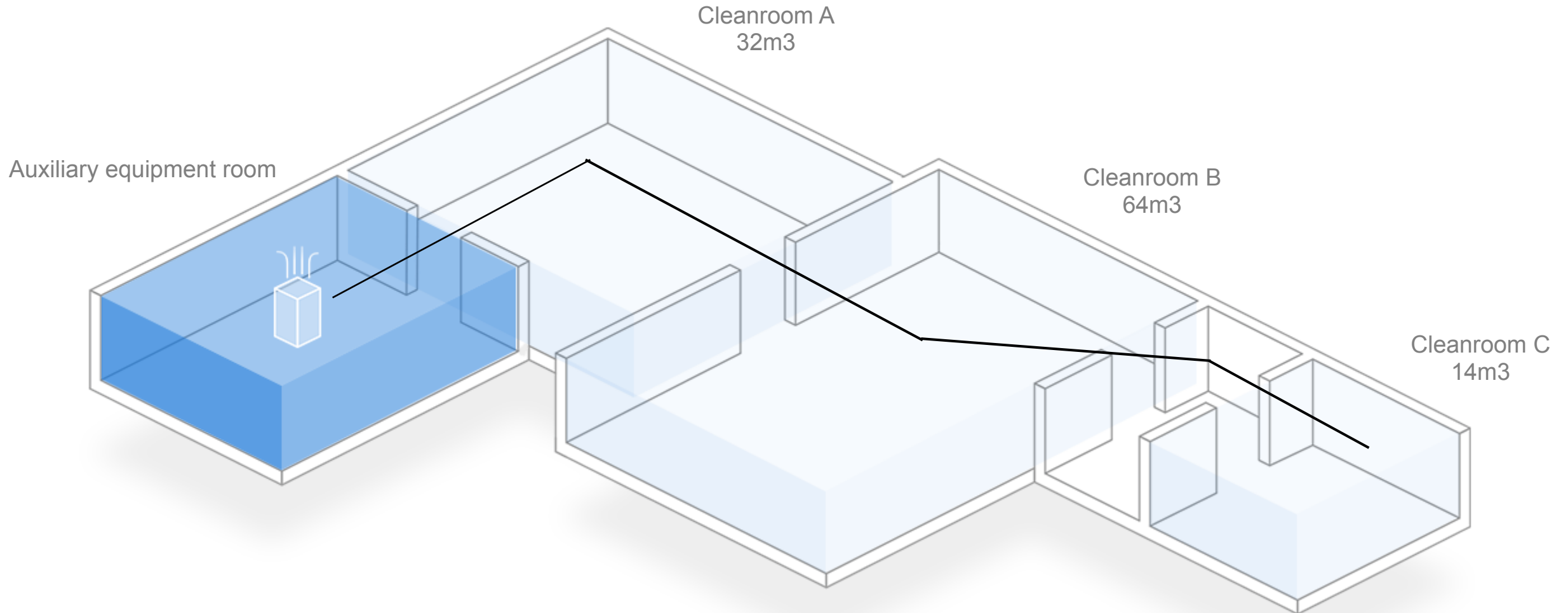
ELECTRIC



WORKING MACHINE

Big Airflow Ventilation Dust Collector

Cleanroom A Volume: 32m³, Cleanroom B Volume 64m³, Cleanroom C
Volume 14m³, Air Exchange Rate 20-30 times, 3 rooms Airflow:
2200-3300m³/h



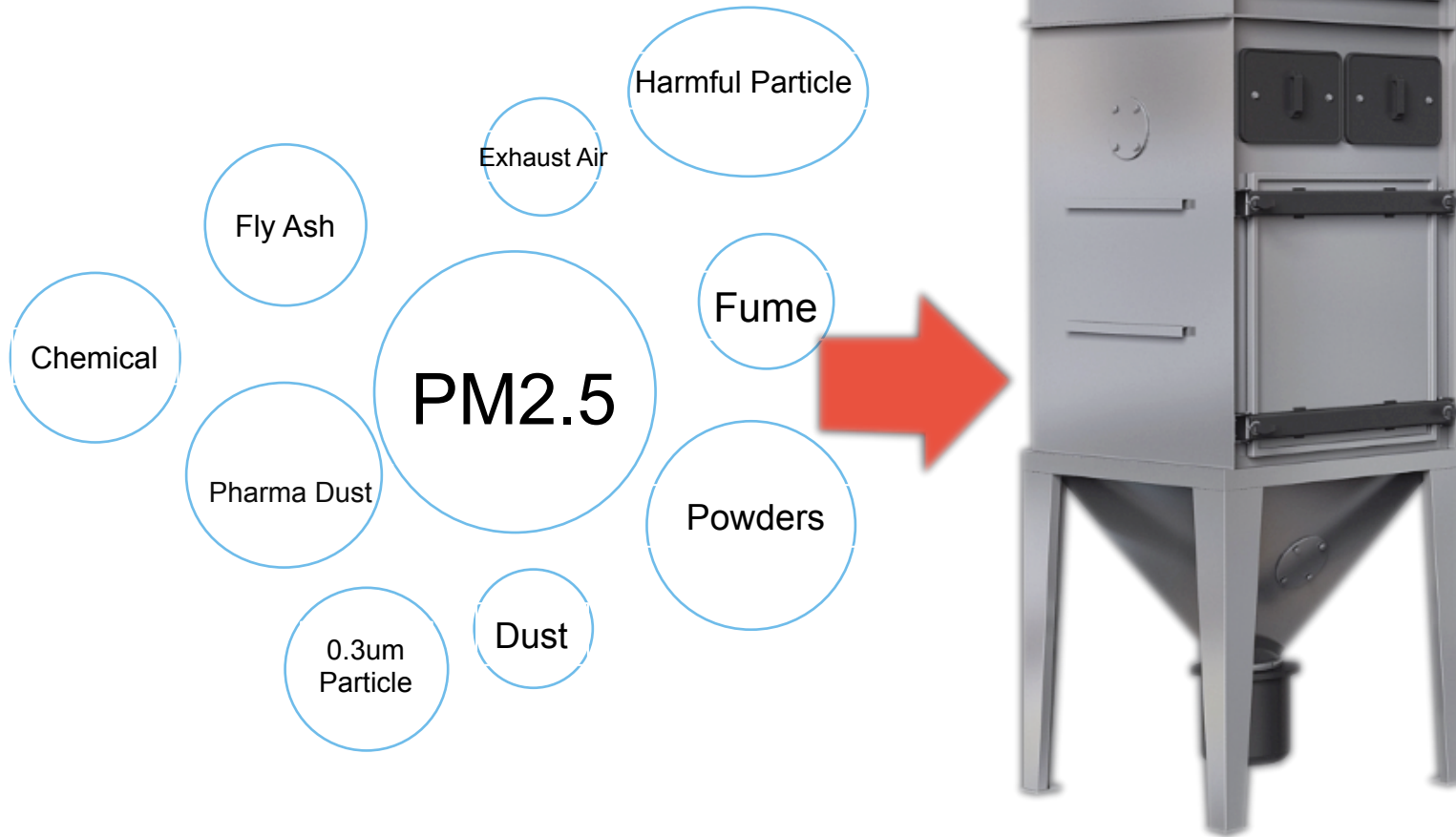
Multi-Points Central Collection

When the system has multi-points, it should design some dust extraction hoods, depending on the height and size of the hoods, dust Sp.Gr... calculating the airflow

One Unit. Multiple Extraction Points.



Dust extraction hoods: Top, bottom, side installation, Full and half covered design.

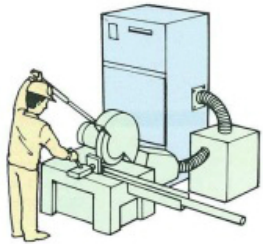


Clean Air

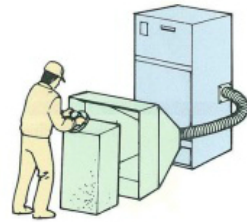
10mg Emission

- **Additional Options A: Explosion-Proof** Anti-explosion motor/ control cabinet/solenoid valves, anti-static filters, explosion vent, isolation valve;
- **Additional Options B: Variable Frequency**
VFD controller controlling;
- **Additional Options C : Discharge**
Dust drawer
Dust hopper+Dust bin
Dust hopper+Discharge Valve;
- **OEM:**
Air inlet/Air outlet

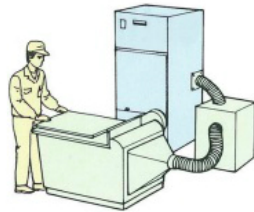
ACMAN Dust Collector Applications



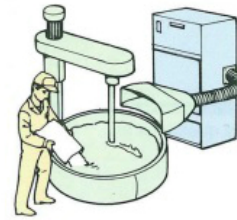
Cutting Work



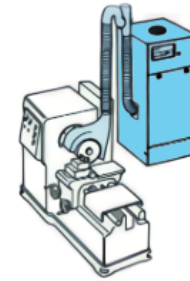
Buffing Work



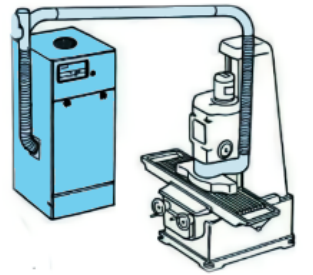
Sanding Process



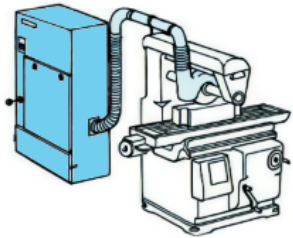
Mixing Process



Lathe Machine



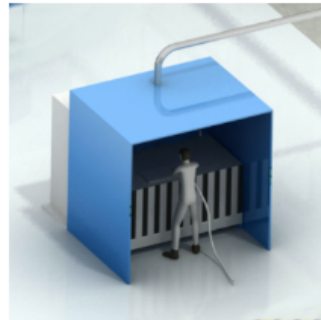
Milling Machine



Grinding Machine



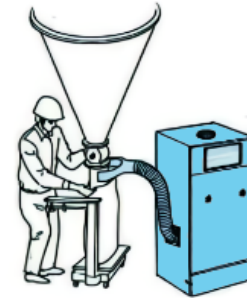
End Grinder Machine



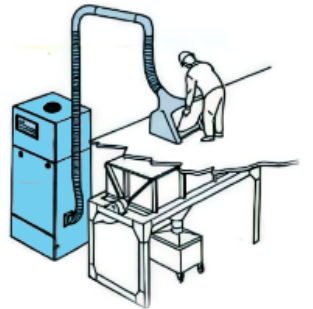
Powder Coating



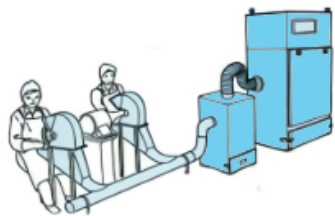
Welding



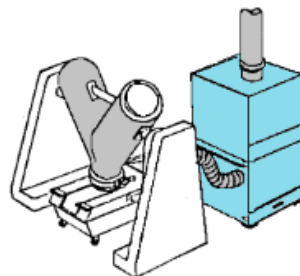
Bagging Work



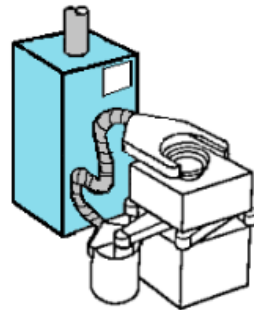
Loading Raw Material



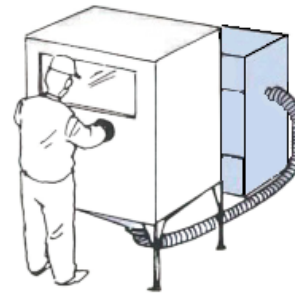
Metal Buffing



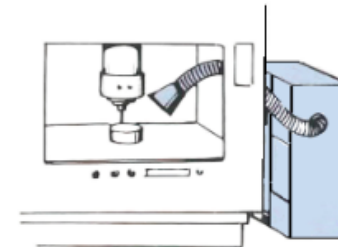
V Blender



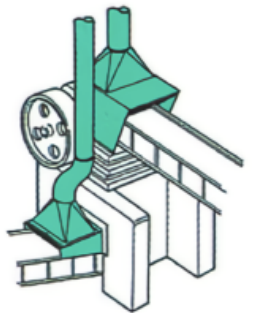
Sieving Machine



Shot Blasting



CNC Machine Center



Belt Conveying

ACMAN High Pressure Dust Extractor — Packing Dust Collector Paka



Model	Airflow m3/h	Filer m2	Full Pressure pa	Power kw	Compress Air	Noise db
PAKA-10A-G	300	7.5	3000	1.5	0.4-0.6Mp	65
PAKA-15A-G	500	15	3500	2.2	0.4-0.6Mp	67
PAKA-20A-G	1200-1600	15	3400	3	0.4-0.6Mp	70

Paka Packing Dust Collector is design for powder packing machine, premade Doypack machine, given bag packing machine;

The equipment is made of stainless steel, which is more in line with the packaging requirements of food, medicine and cosmetics, and is pollution-free.

Not similar with the VAC type bag dust collector, ACMAN dust collector has its self-cleaning system to make the filters renewable.

At present, it has been widely used in packaging machine manufacturers at home and abroad, improving the terminal configuration of the main engine facto
Provides a solid foundation for dust-free packaging

ACMAN ENVIRONMENT

Technical: 19550289881

ACMAN Pharma Dust Collector——Fluidized Bed Granulator FDB



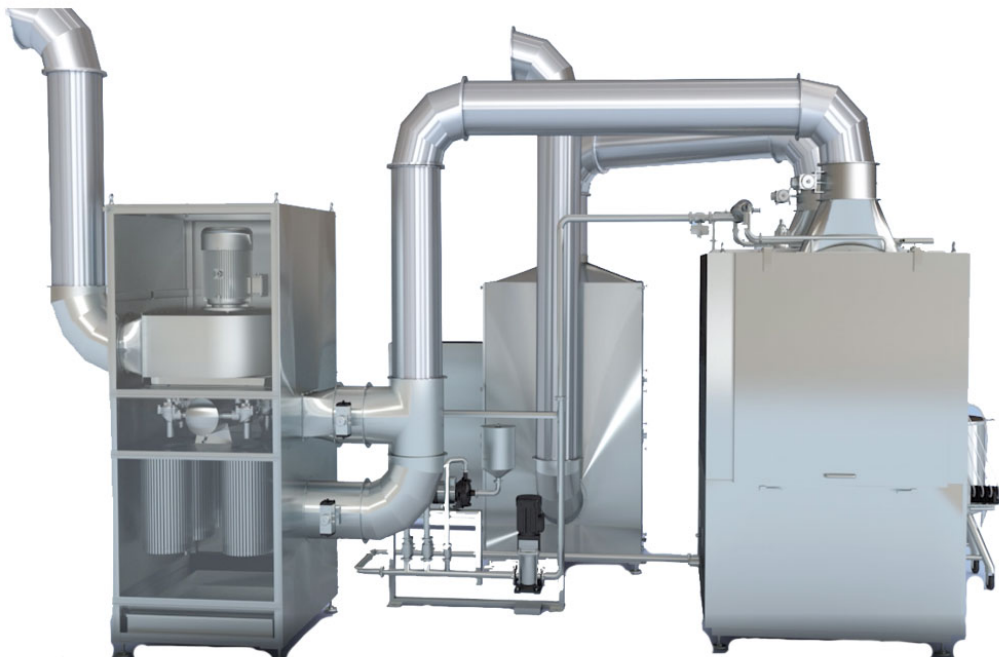
Model	Airflow m3/h	Area m2	Full pressure pa	Power kw	Compress Air	Noise db
FDB-40B-J	3786-4527	36	2700-2200	5.5	0.4-0.6Mp	75
FDB-60B-J	4973-6457	48	2700-2200	7.5	0.4-0.6Mp	75
FDB-80B-J	7081-8489	60	2700-2200	11	0.4-0.6Mp	78
FDB-100B-J	8490-10455	75	2790-2020	15	0.4-0.6Mp	80

At the top of the fluidized bed granulation equipment, there is already a filter device for primary screening, but the efficiency is very low. It is necessary to have a set of high-pressure dust collection equipment as a secondary filter to meet the discharge requirements. Therefore, the FDB series of dust removal and filtering equipment came into being;

Similarly, FDB series dust removal and filtering equipment are made of stainless steel, which is more in line with medical Industry GMP requirements.

*This figure roughly shows the configuration and piping arrangement of the fluidized bed end system

ACMAN Pharma Dust Collector——Film Coating Machine COT



*This figure roughly shows the configuration and piping arrangement of the end system of the coating machine

Model	Airflow m3/h	Area m2	Full Pressure pa	Power kw	Compress Air	Noise db
COT-30B-J	2664-3405	30	2700-2200	4	0.4-0.6Mp	73
COT-40B-J	3786-4527	36	2700-2200	5.5	0.4-0.6Mp	75
COT-60B-J	4973-6457	48	2700-2200	7.5	0.4-0.6Mp	75
COT-80B-J	7081-8489	60	2700-2200	11	0.4-0.6Mp	78

Film coating machine is a common pharmaceutical machinery that produces a lot of dust and is difficult to handle.

Generates hot air and contains organic solvents. Some coating powders are viscous and colored, which need to be considered comprehensively.

Explosion-proof and clean-up problems, and at the same time achieve the effect of linkage with the main PLC of the coating machine.

ACMAN Pharma Dust Collector——Tablet Press/Capsule Filling Dust Extractor Tab



*The diagram roughly shows the configuration and piping arrangement of the end system of the tablet press

Model	Airflow m3/h	Area m2	Full Pressure pa	Power kw	Compress Air	Noise db
TAB-10B-G	1500	22.5	3500	3	0.4-0.6Mp	65

ACMAN is equipped with a Tab series dedicated dust collector for tablet presses and capsule filling machines.

In the process of tableting and capsule filling, the powder material accumulates inside the compartment, which affects the quality of the product itself.

In addition, high-speed tablet presses and capsule filling equipment are precision instruments, and excessive dust accumulation will system cause irreversible damage to electrical system and stamping.

Therefore, Tab tablet press/capsule filling dust removal equipment on the one hand protects the stable production of the product, Secondly, it also protects the stable operation of the host device.

ACMAN TOKA Dust Collector Application——Laser Fume Extractor Rayser



Model	Airflow m3/h	Area m2	Full Pressure pa	Power kw	Compress Air	Noise db
RAYSER-30B-T	2664-3405	30	2700-2200	4	0.4-0.6Mp	73
RAYSER-60B-T	4973-6457	48	2700-2200	7.5	0.4-0.6Mp	75
RAYSER-80B-T	7081-8489	60	2700-2200	11	0.4-0.6Mp	78
RAYSER-100B-T	8490-10455	75	2790-2020	15	0.4-0.6Mp	80
RAYSER-120B-T	10400-13455	90	2790-2020	15	0.4-0.6Mp	85

Metal flame cutting equipment such as laser cutting machine/plasma cutting equipment will produce heavy smoke and hot metal particles, which affect the health of operators and cannot meet the requirements of industrial plant emissions,

Rayser series dust collectors can capture smoke and PM2.5 particles, with SC series spark catcher (explained later) removes particles with sparks, which can achieve emission standard.

In addition, the unique filter is a fire-retardant and flame-retardant material, combined with PTFE membrane coating, which can minimize hazards.

ACMAN TOKA Dust Collector Application——Sand Blasting Dust Extractor Blast



Model	Airflow m3/h	Area m2	Full Pressure pa	Power kw	Compress Air	Noise db
BLAST-15B	1600-3517	18	1300-972	2.2	0.4-0.6Mp	65
BLAST-30B	1600-2200	30	3250	4	0.4-0.6Mp	70

Negative pressure sandblasting machines usually spray sand materials on the metal surface through compressed air under sealed conditions. Some metal oxide scale, rust, burrs and other dusts need to be treated by a negative pressure purification system.

Our Blast series dust removal equipment can effectively remove the remaining sand and dust in time, so that the operator can clearly grind the surface of the workpiece through the viewing window, leaving no dead ends.

In addition, we also have a cyclone collection system that can be placed in front of our Blast series dust removal equipment, so that the heavier sand can be recovered in time.

ACMAN TOKA Dust Collector Application——Silo Top Dust Collector



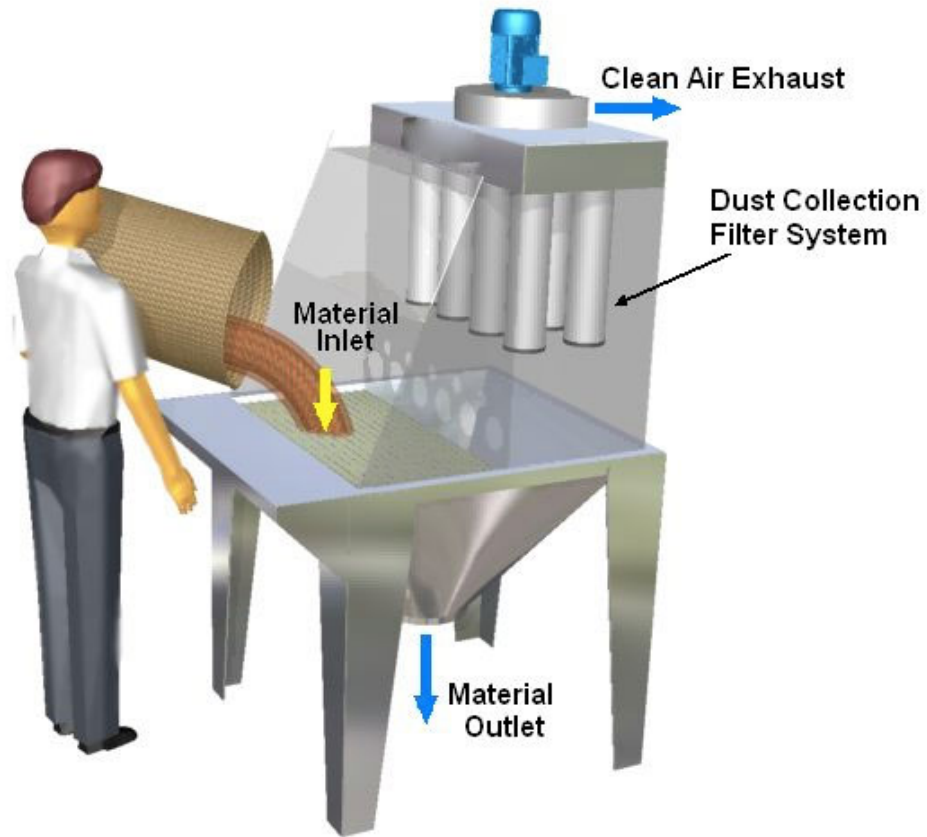
Model	Airflow m3/h	Area m2	Full Pressure pa	Power kw	Compress Air	Noise db
SILO-5B	500-900	12	1780	0.75	0.4-0.6Mp	65
SILO-10B	900-1100	12	2040-1780	1.1	0.4-0.6Mp	67
SILO-15B	1400-1600	18	2040-1780	1.5	0.4-0.6Mp	70
SILO-25B	1688-2476	30	2150-1820	3	0.4-0.6Mp	73
SILO-30B	2664-3405	30	2700-2200	4	0.4-0.6Mp	73
SILO-40B	3786-4527	36	2700-2200	5.5	0.4-0.6Mp	75
SILO-60B	4973-6457	48	2700-2200	7.5	0.4-0.6Mp	75
SILO-80B	7081-8489	60	2700-2200	11	0.4-0.6Mp	78

Silo top dust collector is specially used for gas discharge and purification on silo, mixing silo and raw material storage silo.

Exhaust venting to the atmosphere to balance the pressure in the chamber.

For some materials with fermentation reaction, air replacement is essential. Our Silo series can perfectly cope with the interface of different warehouse roofs.

ACMAN TOKA Dust Collector Applications——Dust Free Bag Dumping Station



Manual feeding often produces a lot of dust, so generally the feeding port needs a negative pressure feeding station to capture the scattered dust. At the same time, the filter system and the filter pulse system also intervene at the same time, so that the whole feeding process can be continuous and stable.。

The raw materials will be introduced into the silo or tank under the action of gravity, realizing dust-free feeding.

When there are multiple feeding ports, ACMAN provides the option of centralized dust removal, so that multiple feeding ports can be connected in series to a dust removal host for processing. When only part of the multiple feed openings is used, we will also distribute the air volume according to the actual number of openings.

ACMAN Mobile Dust/Fume Extractor——Apollo



Model	Airflow m3/h	Size mm	Power kw	Compress Air	Noise db
Apollo-1000	1000	600*650*1000	0.75	0.4-0.6Mp	<60
Apollo-1500	1500	700*700*1100	1.1	0.4-0.6Mp	<62
Apollo-2000	2000	700*700*1200	2.2	0.4-0.6Mp	<65

Apollo small mobile dust removal equipment is widely used in welding fumes, weighing dust removal and dust production points with small air volume. The 360-degree flexible suction arm of the equipment can take into account the dust-generating positions of multiple angles. The device is light and easy to move with four universal wheels.

In the filter section, we have a high-efficiency filter cartridge filter and a medium-efficiency filter on each of the air outlets on both sides to ensure dust-holding efficiency and emission standards. In addition, the control of the equipment is also in the most conspicuous position of the man-machine interface, and its pressure difference and operating status can be checked in real time.

ACMAN No Pump Wet Scrubber——Waterfall



Model	Airflow m3/h	Resistance pa	Size mm	Power kw	Weight kg
WATERFULL-2	1600-2900	~80	950x1110x2357	4	1100
WATERFULL-4	2900-4000	~80	1100x1300x2653	5.5	1320
WATERFULL-6	4000-6400	~80	1330x1630x3242	7.5	1480
WATERFULL-8	6400-8500	~80	1530x1830x3242	11	1990
WATERFULL-10	8500-10580	~80	1730x2030x3432	15	2460
WATERFULL-15	12000-17000	~80-120	2075x2903x3930	22	3680
WATERFULL-20	17000-24000	~80-120	2225x2903x4238	30	4200

Waterfall wet dust collector has a unique effect on dust with sparks, explosive dust, viscous dust, toxic dust, easily soluble in water and hygroscopic dust, hot exhaust gas, etc. The biggest feature of Waterfall is that it does not need a circulating pump, and it forms a water curtain by itself to fully contact the dust for washing, so that there is no problem of channel or pump blockage. In addition, the equipment has a dosing box, which can add alkaline solution to neutralize the acidic gas. Due to its large mud water tank, the metal grinding and polishing process is very suitable for this wet dust removal device.

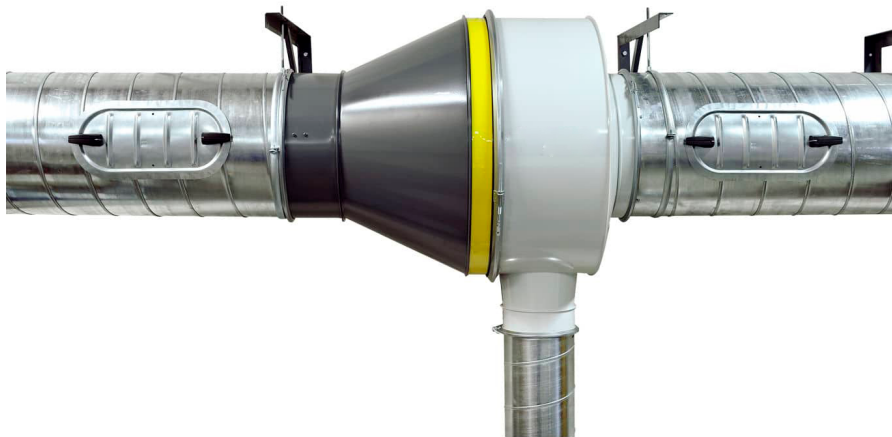
ACMAN Pre-treatment Equipment——Typhoon Cyclone Separator



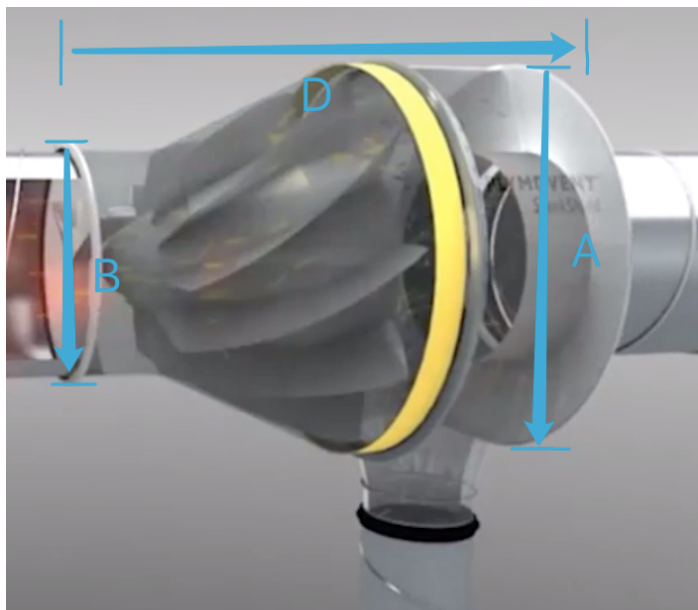
Model	Airflow m3/h	Resistance pa	Size mm	Velocity m/s	Weight kg
TYPHOON-200	370~590	880~2160	Φ200×940	14~22	37
TYPHOON-300	840~1320	880~2160	Φ300×1360	14~22	51
TYPHOON-400	1500~2340	880~2160	Φ400×1780	14~22	85
TYPHOON-500	2340~3660	880~2160	Φ500×2200	14~22	132
TYPHOON-600	3370~5290	880~2160	Φ600×2620	14~22	183
TYPHOON-700	4600~7200	880~2160	Φ700×3030	14~22	252
TYPHOON-800	5950~9350	880~2160	Φ800×3450	14~22	325
TYPHOON-900	7650~11890	880~2160	Φ900×3870	14~22	400
TYPHOON-1000	9340~14630	880~2160	Φ1000×4280	14~22	500

The cyclone separator is a simple device that uses centrifugal action to separate and collect particles with a large specific gravity. Because of its simple structure, low cost and convenient cleaning, it has become the first pretreatment filter equipment for powder collection. The disadvantage is that the collection efficiency is not so high, generally only about 85-90%. Generally, when the air volume is large, the volume of the cyclone separator will be slightly larger. ACMAN's single-stage cyclone generally handles air volume of 300-1500CBM

ACMAN Pre-treatment Equipment——Spark Arrestor



Model	Airflow m3/h	Resistance pa	Size A*B*D mm			Velocity m/s
SC-200	1200-1800	≤1000	Φ400	Φ213	670	14~22
SC-250	1800-2800	≤1000	Φ500	Φ250	778	14~22
SC-300	2800-4000	≤1000	Φ600	Φ300	860	14~22
SC-350	4000-5500	≤1000	Φ680	Φ350	905	14~22
SC-400	5500-7000	≤1000	Φ710	Φ400	943	14~22
SC-450	7000-9000	≤1000	Φ820	Φ450	1050	14~22
SC-500	9000-11000	≤1000	Φ900	Φ500	1159	14~22



*C is the center height, which can determine the length of the dropping tube

The spark arrester is a kind of pretreatment equipment that captures the dust with sparks, protects the fabric dust collector behind, and prevents fire. The SC series equipment is installed horizontally in the pipeline, and the captured sparks will fall into the dust collecting bucket through the pipeline. Laser cutting, flame cutting, plasma cutting and other processes all require spark arrestors to pretreat the gas containing sparks, and our RAYSER dust removal equipment is added to the back end to ensure both emissions and safety.

ACMAN Bag in Bag out Unit——BIBO HEPA Filter Housing Unit

1 Stage BIBO HEPA Filter Housing

Model	Airflow m3/h	HEPA Size mm	HEPA QTY
BIBO-H-500CFM	850	484*484*220	1
BIBO-H-1000CFM	1700	592*592*292	1
BIBO-H-2000CFM	3400	592*950*292	1
BIBO-H-4000CFM	6800	592*950*292	2
BIBO-H-6000CFM	10200	592*950*292	3

2 Stage BIBO HEPA+F9 MEPA Filter Housing

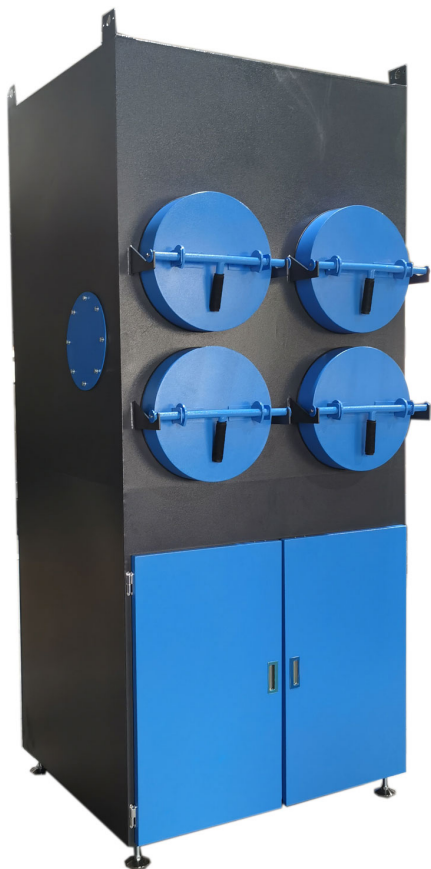
Model	Airflow m3/h	HEPA Size mm	HEPA QTY	MEPA Size mm	MEPA QTY
BIBO-FH-500CFM	850	484*484*220	1	484*484*46	1
BIBO-FH-1000CFM	1700	592*592*292	1	592*592*46	1
BIBO-FH-2000CFM	3400	592*950*292	1	592*950*46	1
BIBO-FH-4000CFM	6800	592*950*292	2	592*950*46	2
BIBO-FH-6000CFM	10200	592*950*292	3	592*950*46	3

3 Stage BIBO HEPA+F9 Mepa+G4 Filter Housing

Model	Airflow m3/h	HEPA Size mm	HEPA Qty	MEPA Size mm	MEPA Qty	G4 Filter mm	G4 Qty
BIBO-GFH-500CFM	850	484*484*220	1	484*484*46	1	484*484*46	1
BIBO-GFH-1000CFM	1700	592*592*292	1	592*592*46	1	592*592*46	1
BIBO-GFH-2000CFM	3400	592*950*292	1	592*950*46	1	592*950*46	1
BIBO-GFH-4000CFM	6800	592*950*292	2	592*950*46	2	592*950*46	2
BIBO-GFH-6000CFM	10200	592*950*292	3	592*950*46	3	592*950*46	3



ACMAN Bag in Bag out Unit——BIBO Self-cleaning Cartridge Dust Collector



Model	Airflow m3/h	Resistance pa	Filter Area m2	Filter Size mm	Tem °C	Cleaning
BIBO-F-1000	500-1000	-4000	18.5	350*660	<120	Pulse-jet
BIBO-F-2000	2000	-4000	37	350*660	<120	Pulse-jet
BIBO-F-4000	4000	-4000	71	350*660	<120	Pulse-jet

BIBO is a general term for bag-in-bag-out safe replacement of filters, which means that people will not touch the dust on the surface of the filter cartridge, so when encountering toxic and allergenic dust, it is guaranteed. For personal safety, the filters recovered by nylon bags will be treated as solid waste, new filters will also be wrapped in nylon bags and placed inside the equipment, and the dust in the ash bucket will also be taken out from the sealed bags.

The equipment shown on the previous page is a high-efficiency and medium-efficiency bag in and bag out, with a high level of emission, but the filter is not regenerated, and the filter cartridge filter bag in and out of the bag has a blowing system, which makes the filter life longer. In addition, we The differential pressure sensor, the DOP detection port can timely feedback and detect the leakage of the filter to ensure safety.

ACMAN Vacuum Cleaning System——Ultra-Pressure Vac Cleaning System



Model	Airflow m3/h	Resistance pa	Filter Area m2	Size mm	Power kw	Inlet Size mm	Max Usage
VAC-500/4	300	38000	6.28	Dia 700*2010	2.2	Φ57	3-4
VAC-500/6	500	60000	9.42	Dia 800*2185	7.5	Φ76	5-6
VAC-1000/6	1000	90000	18.84	Dia 800*6185	11	Φ89	10-15

Vacuum cleaning systems solve the problem of floor sweeping in factories or cleaning inside large boilers. When the dust-generating points are scattered, and the area to be cleaned is large and the particulate matter is large, the mobile small vacuum cleaning equipment will inevitably have more than enough power, but if a set of ultra-high negative pressure vacuum cleaning system is used, These problems can be easily solved. Our equipment can be used by 2-10 ports at the same time, meeting the cleaning requirements of small air volume and high negative pressure. At the same time, as long as it is connected to our smart quick interface, the equipment will automatically turn on.

ACMAN Sinter Plate PE Filter Elements——SinBoarc



Sintered filter is a new filtration technology introduced from Germany. Due to its rigid body structure and its ultra-high filtration accuracy,

To make it stand out in special working conditions, we can design a dust collector suitable for you according to different working conditions, and select a suitable filter. Suitable for the following special conditions:

- 1: Conditions where materials need to be recycled: such as crushing and collection;
- 2: Ultrafine powder filtration: nanometer fine powder, etc.;
- 3: The working conditions that meet the 10mg emission requirement;
- 4: Conditions with hygroscopic dust or high moisture content: such as cold rolling lines;
- 5: The service life of the filter needs to reach more than 10 years;
- 6: Materials with strong abrasiveness.



NINGBO NINHUA INTERNATIONAL CO., LTD
ACMAN ENVIRONMENT (HANGZHOU) CO.,LTD
Tel:19550289881
Web: www.acman-dustcollector.com