CE
유럽인증

ISO 9001
ISO 14001

www.dustking.com

We Value our Earth

Dust Collector

DUSTKING Co.,Ltd.

Dust King, your partner in environmental safety and cleanliness

Dust and powder from manufacturing process affects negatively not only the quality of products, but also people's health.
So, a dust collector plays an important role in the industrial field.
In 2002, We developed "DUSTKING", which is down flow dust collector, with our own original technology.

We are the leading company in the area of recycling energy, maintaining worker's good health and environment.

We hope we can meet you with our advanced technology and engineers.

DUSTKING Co.,Ltd. C.E.O **K. C. EHOI**

Established

Established	1990.09.04
Head office/ Factory	35 Hwanggeum-ro, 128beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea
Research Lab	(Yangchon Industrial Complex 2748)

Certificates

ISO9001 / ISO14001	ICL KOREA
CE	TUVNORD
INNO-BIZ	SMBA
MAIN-BIZ	SMBA
Certificate of venture business	KIBO
Excellent performance certification	SMBA Administrator
Certificate of excellent environmental firm	Gyeonggi Province Governor
Research laboratory	KOITA
Certificate of woman-owned firm	President of Gyeonggi Branch, Korea Women Entrepeneurs Association
Certificate of direct production	KBIZ
Certification of small business	SMBA Administrator
Gyeonggido promising small firm	Gyeonggi-do
Certificate of productivity management system	President of KPC
Benefit sharing system introduced-company	Foundation of Big & SME collaboration

Patents / Utility Models / Trademarks / License

Patents

Patent-pending	Filter module for cust collector using pyroscreen and dust collector using thereof
10-1527276	Nozzle-furnished air blower for dust collector
10-0035625	Air shower booth collecting fallen dust
10-0090957	Dust removal apparatus of bag filter for dust collector
10-0035622	Apparatus to prevent clogging by powder sticking in hopper using air pulse valve
10-1457421	Wet-flow dust collector capturing dust and discharging
10-1170022	Bird repulsion apparatus using compressed air
10-1170015	Air intake filter setting device for gas turbine
10-1150274	Control system fir intelligent remote dust collector bag filter using power line communication
10-0928289	Dust collecting filter cartridge with venturi cover
10-0895990	Top discharge type horizontal dust collector fitted with baffle
10-0874868	Dust collector for railway vehicle maintenance
10-0874991	Movable air cleaner for underground living space
10-0854510	Air cleaner for rail track
10-0866169	Horizontal dust collector mounted on powder-use silo
10-0866168	Horizontal dust collector fitted with blow pipe built-in door
10-0922191	Bird repulsion device
10-0917258	Central dust collecting vacuum cleaning system with horizontal dust collector
10-0585911	Filter

Utility Models

20-0474931	Intake duct system for high water content dust removal-use dust collector
20-0474924	Filter fixing device for horizontal dust collector
20-044368	Filter fixing device for horizontal dust collector
0358230	Dust collector
0236994	Dust capturing device having penetration hole within hood
0236972	Dust collector using water crashing against plates
0214283	Dust collector fitted with diatomite-coated filter

Trademark Registration

0555024	DOWN FLOW
0574655	DUST-KING

Technology Escrow

2015-02-11-2361	Dust collector for iron arsenate prevention equipment in heat recovery steam generator

Awards

Prizes	2005.11.14	Prime ministerial citation (New Technology Commercialization Contest held by MKE)
	2005.12.30	The 10th Gimpo SME Award
	2006.10.25	Prime ministerial citation (Korea Technologies Exposition)
	2008.12.02	$ one million export tower award on Trade day
	2012.03.21	Citation from Gimpo CCI
	2012.09.11	Prime ministerial-citation (Excellent capital goods development)
	2013.10.28	Citation from SMBC
Achievement plaque	2015.10.31	Corporate partnership excellent corporate
Citation plaque	2015.09.17	Industrial innovation movement

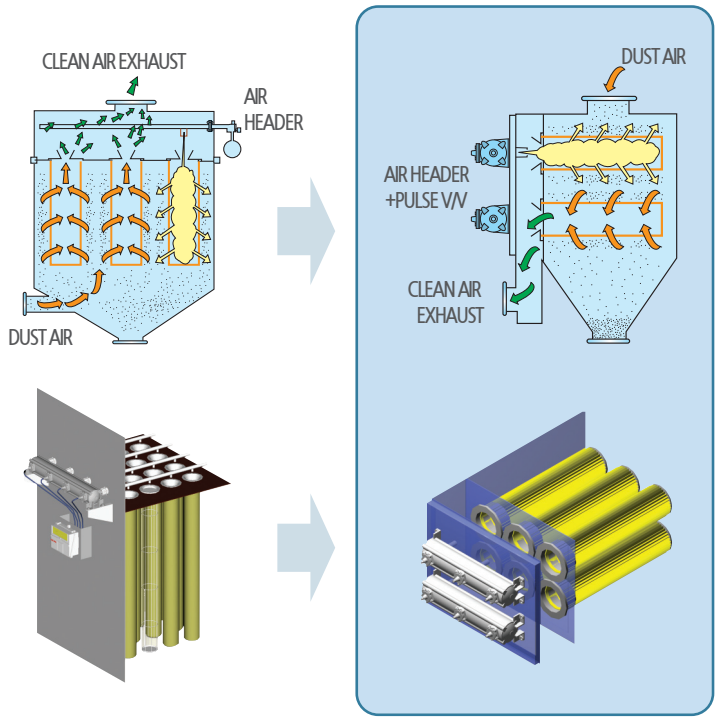
Appreciation plaque	1991.05.15	Opened Iksan COMPOUNDING plant
Achievement plaque	1994.10.11	Opened LG Yeocheon PVC plant
Appreciation plaque	1999.10.20	Opened LG China PVC plant
Appreciation plaque	2010.12.08	Excellent SME from Korea East-West Power
Appreciation plaque	2012.04.30	Excellent SME from Korea Western Power
Achievement plaque	2013.11.22	Excellent SME Korea South-East Power

Citation	1984.12.10	Excellent employee award from Hyundai Heavy Industries
Citation	1986.06.01	Excellent proposal award from Hyundai Heavy Industries
Citation plaque	1996.09.16	For Indonesia mission field church
Engineer prize	2006.12.28	Yonsei University Engineering Graduate School

History

2015.11	Demonstrated dust collector in Korea Midland Power-Incheon Thermal Power
2014.12	Selected as Gyeonggido excellent environmental firm
2014.12	Registered in Japan MITSUBISHI as supplier
2013.08	Selected as core enterprise of Korea South-East Power (2013.09.01~2015.08.31)
2012.08	Acquired EPC of dust collecting system from SMBA
2012.04	Selected as KOMIPO-BEST 30 suppliers from Korea Midland Power
2012.01	Renamed to DUSTING Co., Ltd
2012.01	Obtained order of dust collecting system from Indonesia Hanook Tire ($ 2 million)
2011.01	Acquired certificate of MAIN-BIZ
2010.08	Selected as One-KEPCO exportation company from KEPCO
2009.12	Obtained order of dust collecting system from Korea East-West Power, Honam Thermal Power
2009.11	Relocated factory to Gimpo Yangchon Industrial Complex
2008.12.02	Received $ one million export tower award on the 45th Export Day from President Lee Myung-bak
2008.10.	Acquired certificate of Gyeonggido promising SME
2008.06.11	Acquired certificate of Gyeonggido export promising firm
2007.07	Obtained order of dust collecting system $2 million from Japan Kobe Steel ltd
2006.08.25	Certificate of INNOBIZ (Technology innovative small firm - SMBA (No.6014-1635)
2006.03.16	CE Mark (Certificate of Europe)
2005.05.12	Certificate of venture business (SMBA No. 051624032100580)
2004.12.31	Acquired certificate of NEP from MKE
2004.07.01	Exported DUSTKING $500 thousand to China
2002.02.03	Developed Korea's first modular dust collector DUSTKING
2000.08.15	Opened Gimpo plant (Plottage 6,600㎡, Floor space 2,640㎡)
2000.06.05	Acquired of certificate of ISO 9001, ISO 14001
1997.12.12	Relocated head office to Yeoido Bldg.,
1996.11.05	Acquired construction business mechanical works license (No. Seoul-12-54)
1994.12.21	Received achievement award for PVC project completion from LG Chemistry (Chairman Sung Gap-je)
1990.12.13	Acquired environmental anti-pollution facilities business of Seoul Environmental Office (No.206)
1990.10.17	Developed dust collector fitted with diatomite coated-filter
1990.09.10	Registered in LG Chemistry as supplier (Environmental equipment, Silo, Storage Tank)
1990.09.04	Founded Hansung Eng & Const Co., Ltd

From 10㎥/min
To 3,500㎥/min



Conventional Dust Collector

DUST KING

- Down flow system
- Modularizing baghouse design
- Compact design
- Prompt delivery
- Horizontal type
- Open door type

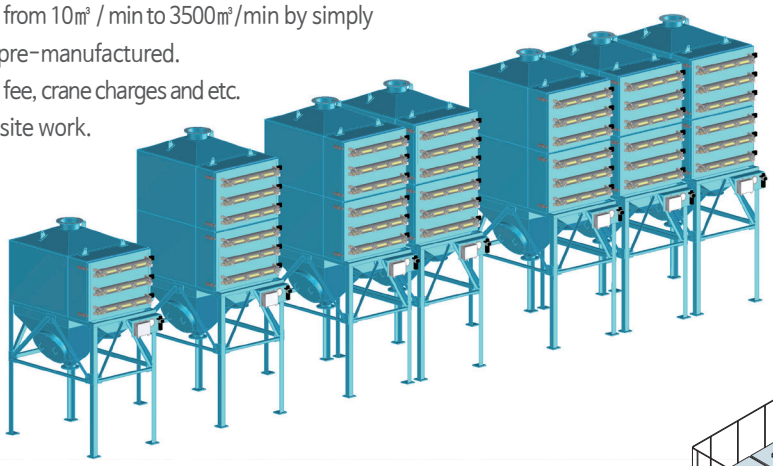
Down Flow System

- Filters are installed horizontally, not vertically.
- It has a structure which makes dust fall into Dust Box without flowing in whirls and rescattering.
- Dust which could not fall into Hopper because of upward flow don't penetrate into filters, so it doesn't have a chance to shorten longevity and lower the efficiency of collecting dust.
- It's not required to enlarge the dust collector volume for reducing ascent speed, so the dust collector can be installed in minimum space.

Collectable from 0.2㎛
High Efficiency Dust Collector DustKing™

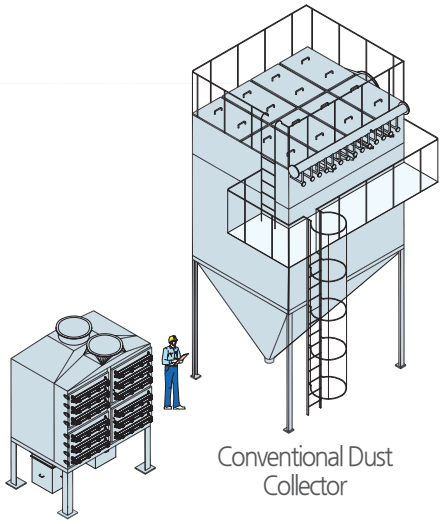
Modular Baghouse Design

- System increases dust collection capacity from 10㎥ / min to 3500㎥/min by simply laying up standard modules which are pre-manufactured.
- It reduces installation cost, transportation fee, crane charges and etc.
- It saves installation cost by simplifying site work.
- It saves labor cost by mass production.



Utilizing space economically

- It can be installed at the corner of work space because of the design which utilizes utmost work space.
- The size of bag housing is smaller than one of other manufacturer's. The down flow characteristics and the use of pleated bag make it possible to reduce the area to 1/2, the volume to 1/5 compared to conventional dust collectors, so surplus spaces can be utilized for other purposes.



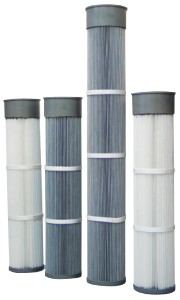
Conventional Dust Collector

DUST KING

Pleated Filters

99.95% over up to 0.2㎛~2㎛

- Available air cleaning and washable
- Filtering area is ø190 x 800L(4㎡) and ø190 x 1200L(6㎡) which secures more than 10 times of filtering surface and improves filtering surface per unit volume significantly.
- Using low pressured air (3.0kg/㎠) provides longer bag longevity and saves energy.



Bag replacement

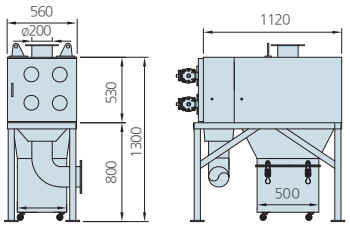
- DustKing is required to open the vertical door at ground level in replacing filters, so labor cost can be saved. Whereas, conventional dust collectors are required to open hatch cover and then disassemble Venturi and Bag Case in replacing filters and maintaining service.
- There is no worker's safety issue in maintenance service.
- Any workers can manage it without special training.
- Even system operators can replace it easily.
- No special tools are required in maintenance.

Conventional Dust Collector

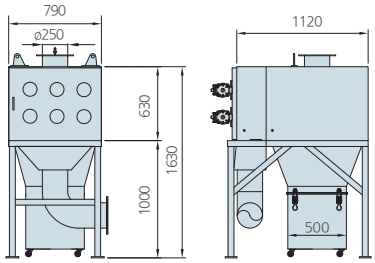
DUST KING

Hopper Type | DKH

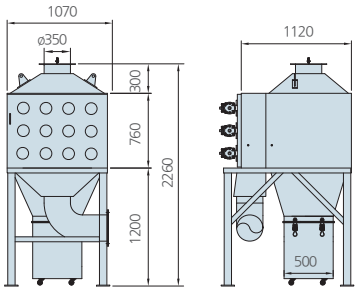
Patent 10-0866168
Patent (Japan) 2009-075770



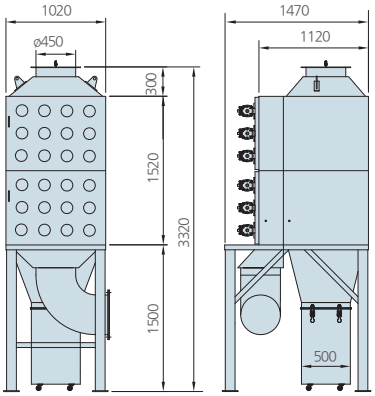
DKH-4



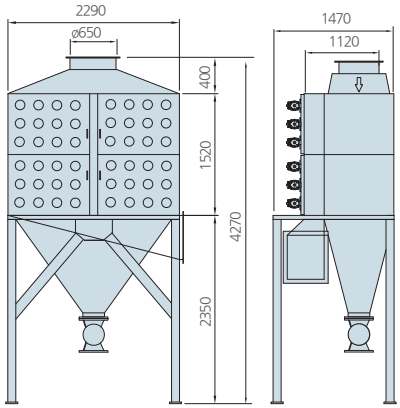
DKH-6



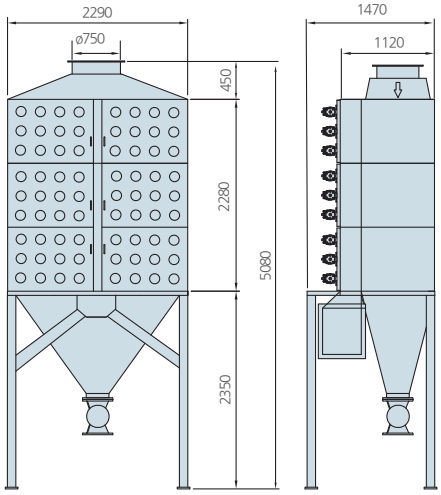
DKH-12



DKH-24



DKH-48



DKH-72

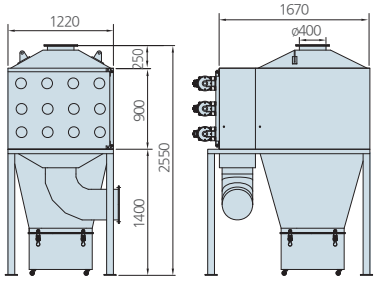
- Processing flow and filtering velocity may vary by the sort of dust.
- Filter Housing material: SS400·SUS304 available·SUS316L optional
- Compressor air pressure : applying 2.5kg/㎠~3.5kg/㎠
- Power : Optional from 220V single phase, 220/380V 3 phases, 440V 3 phase

SPECIFICATION

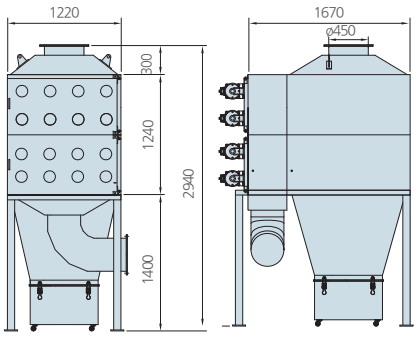
Model No.	Process flow (㎥/min)	Filtering Area (㎡)	Filtering Velocity (m/min)	Static pressure (mmAq)	Motor Kw(Hp)	Number of filter	INLET DUCT(Ø)	Air Consumption (ℓ/min)
	Min.~Max.							
DKH-4	20~25	16	1.0~2.0	200~350	2.2 (3)	4	200	104
DKH-6	25~50	24	1.0~2.0	200~350	3.7 (5)	6	250	156
DKH-12	50~100	48	1.0~2.0	200~350	5.5 (7.5)	12	350	312
DKH-24	100~200	96	1.0~2.0	200~350	11 (15)	24	450	624
DKH-48	200~400	192	1.0~2.0	200~350	22.5 (30)	48	650	1248
DKH-72	300~600	288	1.0~2.0	200~350	30 (40)	72	750	1872

DKHL-72 Model

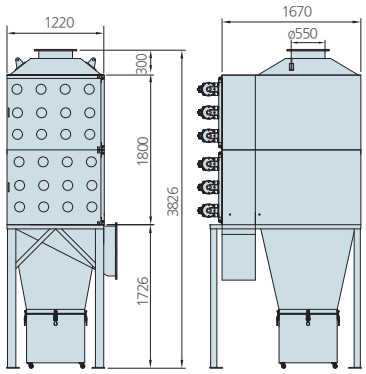
Hopper Type | DKHL



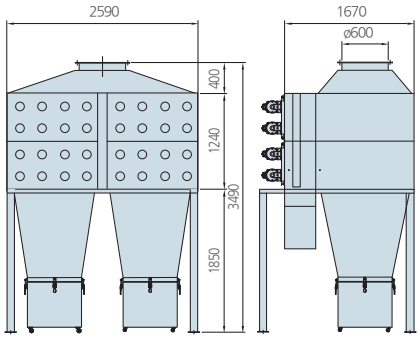
DKHL-12



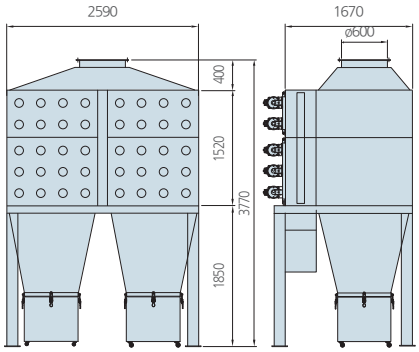
DKHL-16



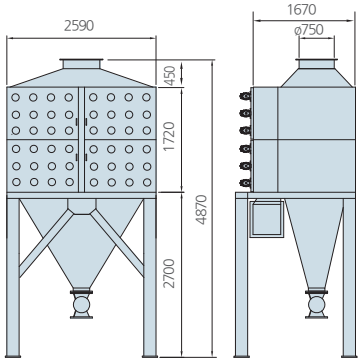
DKHL-24



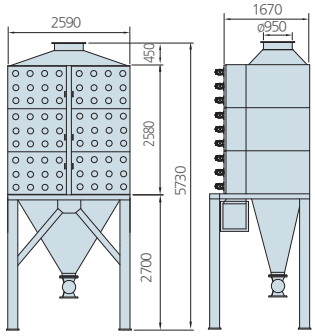
DKHL-32



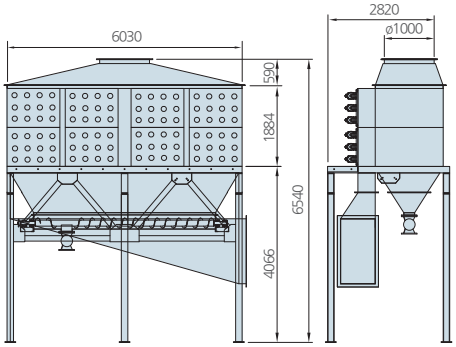
DKHL-40



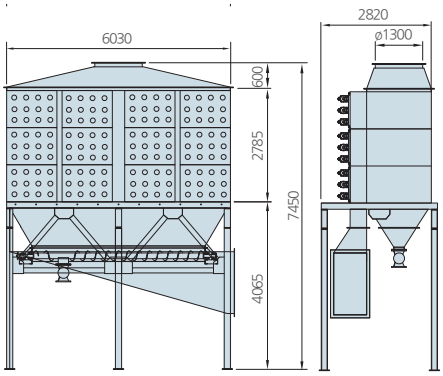
DKHL-48



DKHL-72



DKHL-96



DKHL-144

SPECIFICATION

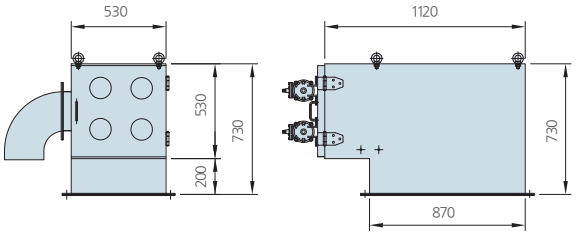
Model No.	Process flow (㎥/min)	Filtering Area (㎡)	Filtering Velocity (m/min)	Static pressure (mmAq)	Motor Kw(Hp)	Number of filter	INLET DUCT(Ø)	Air Consumption (ℓ/min)
	Min.~Max.							
DKHL-12	70~140	72	1.0~2.0	200~350	5.5 (7.5)	12	400	394
DKHL-16	100~200	96	1.0~2.0	200~350	11 (15)	16	450	525
DKHL-24	150~300	144	1.0~2.0	200~350	15 (20)	24	550	788
DKHL-32	200~400	192	1.0~2.0	200~350	19 (25)	32	600	1050
DKHL-40	250~500	240	1.0~2.0	200~350	22 (30)	40	650	1312
DKHL-48	300~550	288	1.0~2.0	200~350	30 (40)	72	750	1575
DKHL-72	400~800	432	1.0~2.0	200~350	-	72	950	2362
DKHL-96	600~1000	576	1.0~2.0	200~350	-	96	1000	3149
DKHL-144	800~1500	864	1.0~2.0	200~350	-	144	1300	4723

Option

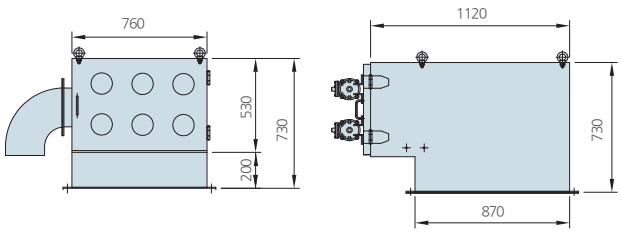
1. Rotary V/V, Screw Conveyor, Compressure & Air Dryer
2. Power 50Hz
3. Filter Bag (General, static dischargable)
4. Platform Lodder

SILO Bin Vent Dust collection | DKSN

Patent 10-0033975
Patent PCT KR2009 / 001840



DKSN-4

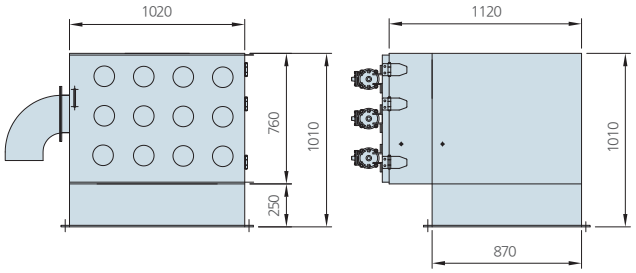


DKSN-6

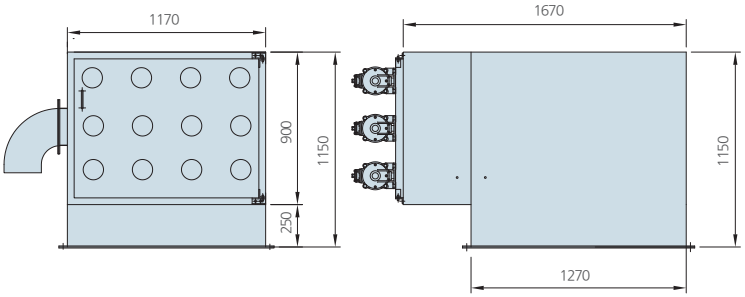
DKSN 4

DKSN 6

DKSN 12



DKSN-12



DKSNL-12

SPECIFICATION

Model No.	Process flow (㎥/min)	Filtering Area (㎡)	Filtering Velocity (m/min)	Number of filter	FAN	Air Consumption (ℓ/min)
	Min.~Max.					
DKSN-4	20~25	16	1.0~2.0	4	Option	104
DKSN-6	25~50	24	1.0~2.0	6	Option	156
DKSN-9	35~50	36	1.0~2.0	9	Option	234
DKSN-12	50~100	48	1.0~2.0	12	Option	312
DKSNL-12	70~140	72	1.0~2.0	12	Option	394

The others (Exist Design)

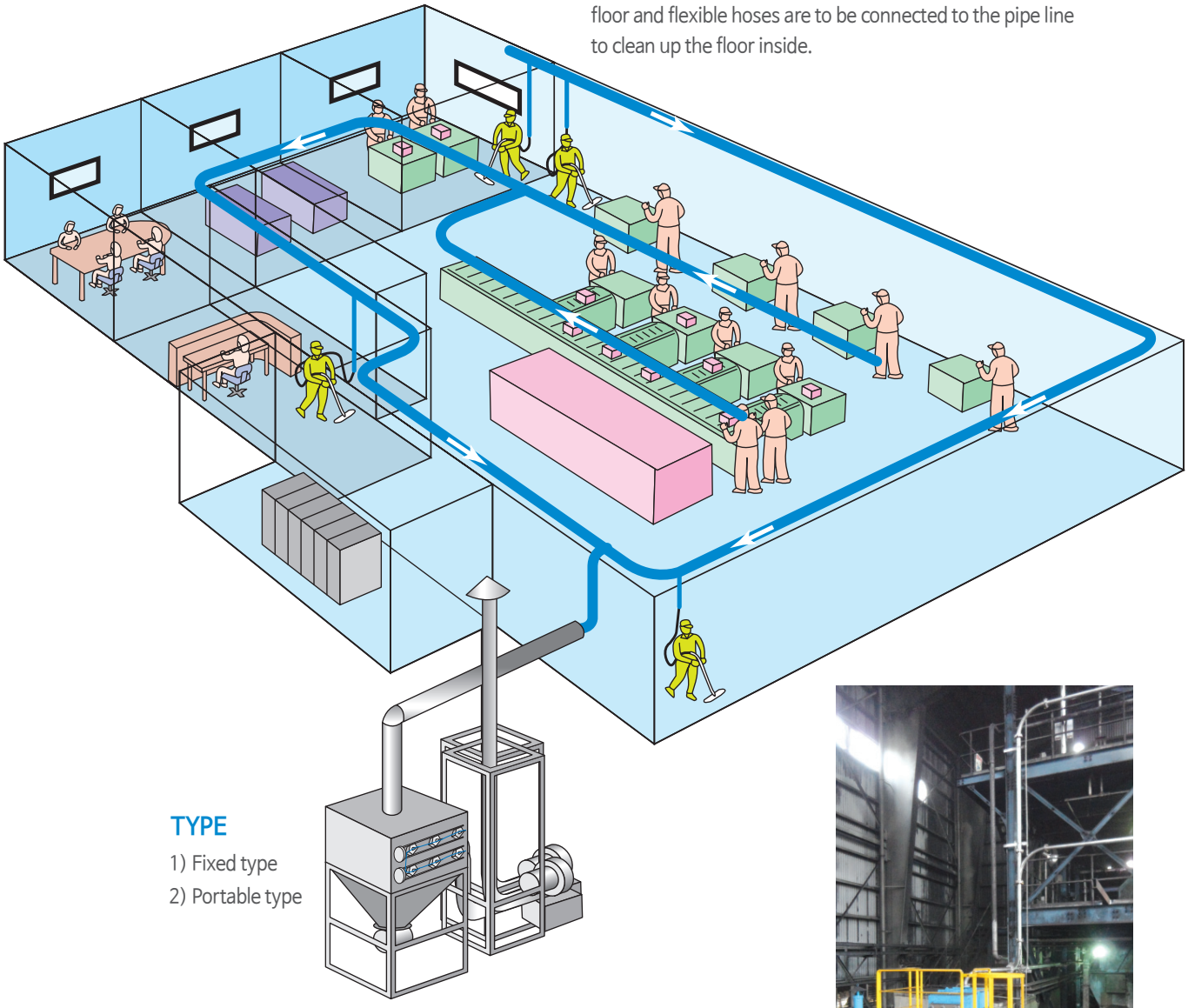
DUSTKING No platform is required for maintenance

Central Dust Collection Cleaning System | DKVC

Patent 10-0917258

Overview

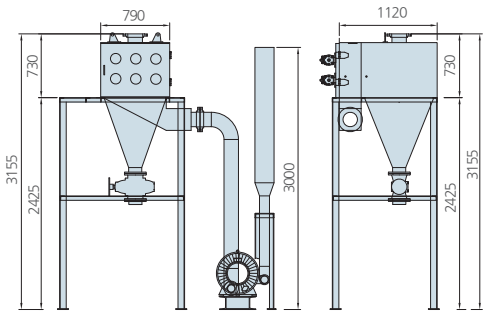
This central dust collection cleaning system sucks up scattered dust or powder on the factory floor through powerful fan to make clean work place as well as to protect workers' health and safety. For this system, one dust collector is to be installed outside with piping lines to each floor and flexible hoses are to be connected to the pipe line to clean up the floor inside.



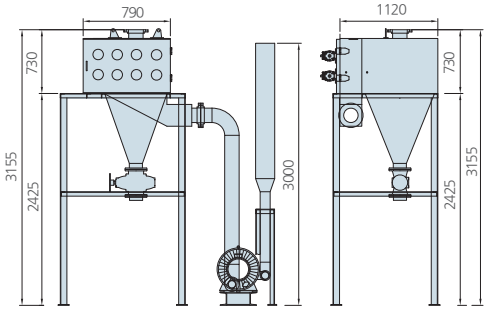
TYPE

1) Fixed type
2) Portable type

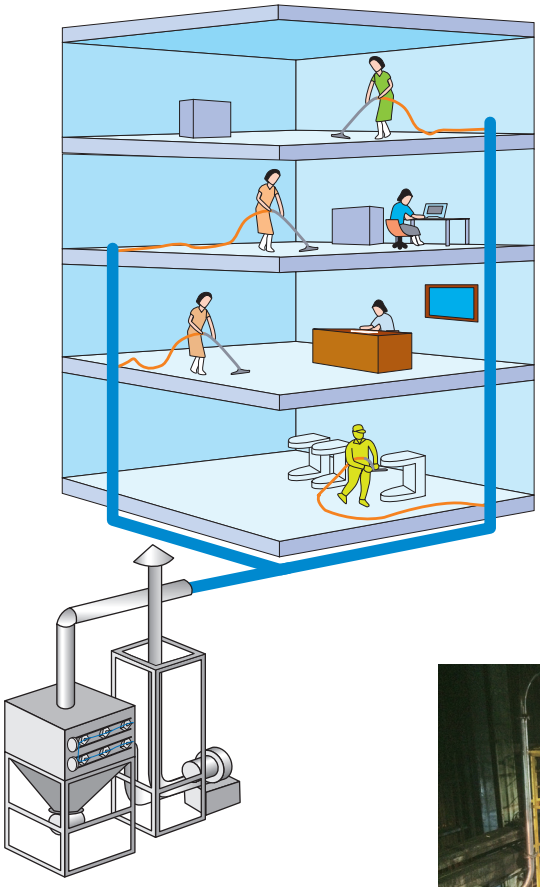
Donghae thermal power plant

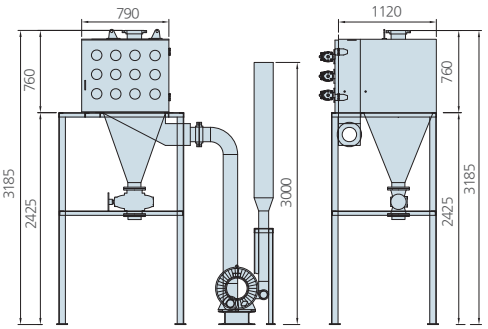


DKVC-6



DKVC-8





DKVC-12

SPECIFICATION

Model No.	Process flow (㎥/min)	Filtering Area (㎡)	Static pressure (mmAq)	Number of filter	Air Consumption (ℓ/min)
	Min.~Max.				
DKVC-6	10~30	24	2,000~7,000	6	156
DKVC-8		32		8	208
DKVC-12		48		12	312

Boryung thermal power plant (TRIPPER ROOM)

Donghae thermal power plant

User-friendly cleaning type

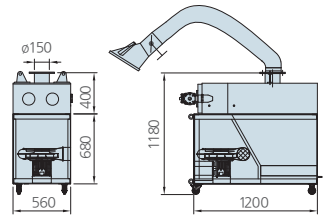
1) Multi-user(2-3) can use simultaneously
2) Not required to carry heavy portable cleaner
3) Simple one-touch coupling type
4) Cleaning with a broom brush is not required

Hadong thermal power plant

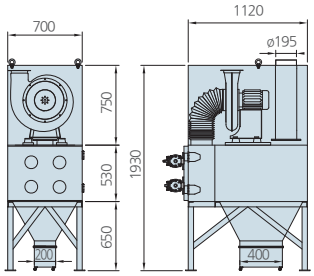
Yeongheung thermal power plant

Drawer Type | DKD

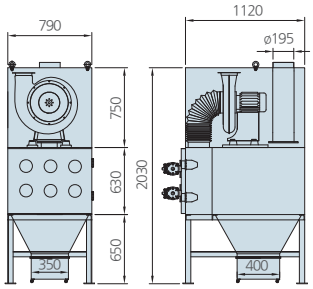
Patent 10-0028190



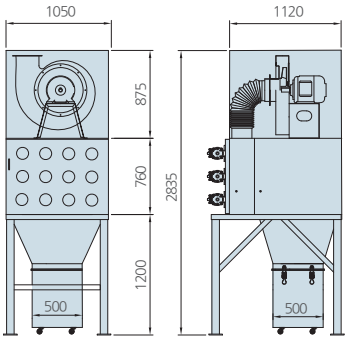
DKD-2



DKD-4



DKD-6

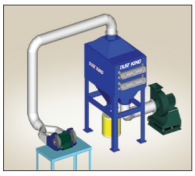


DKD-12

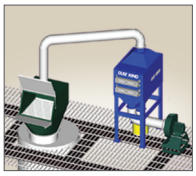
SPECIFICATION

Model No.	Process flow (㎥/min)	Filtering Area (㎡)	Filtering Velocity (m/min)	Static pressure (mmAq)	Motor Kw(Hp)	Number of filter	INLET DUCT(Ø)	Air Consumption (ℓ/min)
	Min.~Max.							
DKD-2	10~20	8	1.0~2.0	150~250	2.2 (3)	2	150	52
DKD-4	20~40	16	1.0~2.0	200~300	2.2 (3)	4	195	104
DKD-6	25~50	24	1.0~2.0	200~300	3.7 (5)	6	195	156
DKD-12	50~100	48	1.0~2.0	200~350	5.5 (7.5)	12	350	312

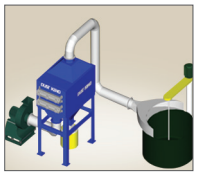
Application for DUSTKING



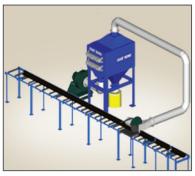
GRINDING



25Kg BAG DUMPING



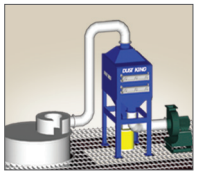
MIXING



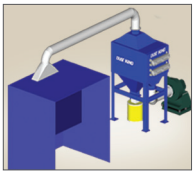
STEEL CUTTING

WORKING TABLE

WOOD CUTTING



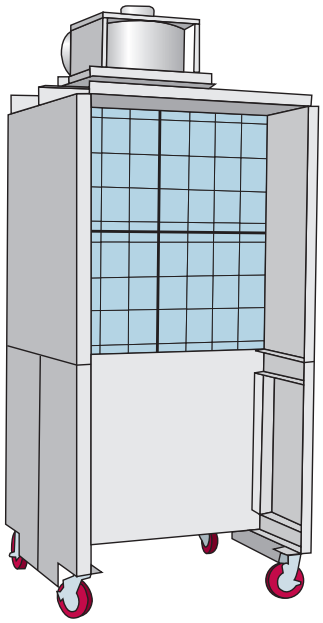
FLACON BAG DUMPING



WORKING BOOTH

Dry Paint Booth | DKPB

Surprising Capability Powerful Adsorption - Superior System



Amazing function of Dry Paint Booth

- Promptly providable due to Mass Production by Modular way.
- Cleaning is not required like conventional paint booth.
- Easy manufacturing and installation with NCT process and assembly.
- Various selection based on the size and the form of operation objects.
- Inhibition of whirlpool of air when spray painting.

SPECIFICATION

MODEL	DIMENSION (mm)			Grooss Weight(kg)	Fan & Motor	Filter Q'ty
	W	L	H			
DKPB-04	1080	1700	1840	110	60㎥/min 430Ø 0.75kw	(높이)2 x (폭)2 計4
DKPB-06	1580	1700	1840	160	90㎥/min 500Ø 1.5kw	(높이)2 x (폭)3 計6
DKPB-09	1680	1200	1760	200	135㎥/min 580Ø 2.2kw	(높이)3 x (폭)3 計9
DKPB-12	2180	1200	1760	250	180㎥/min 675Ø 3.7kw	(높이)3 x (폭)4 計12
DKPB-16	2180	1600	2360	300	240㎥/min 770Ø 3.7kw	(높이)4 x (폭)4 計16
DKPB-20	2680	1600	2360	330	300㎥/min 835Ø 5.5kw	(높이)4 x (폭)6 計20
DKPB-24	3180	1600	2360	400	(180㎥/mim 675Ø) x 2, 3.7kw x 2	(높이)4 x (폭)6 計24
DKPB-28	3680	1600	2360	465	(210㎥/min 770Ø) x 2, 3.7kw x 2	(높이)4 x (폭)7 計28

Dry Paint Booth Design

- Variable size.
- No fly painting ash.
- Modular mass production.
- Immediate supply.
- NCT processing and assembling.
- Production and installment is convenience.
- Caster is useful for moving.
- No need to clean the booth.

Characteristics of Dry Paint Booth Filter

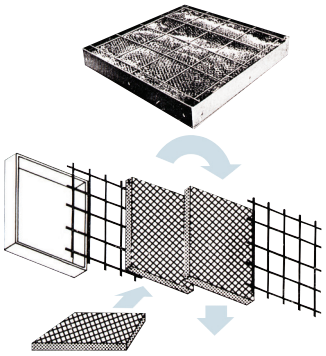
Each different direction filter set 10 pieces.

- 19 times adsorption area from filter's surface to inside.
- None flameable filter material.

Perfect efficiency- 10 layer filter layer, cubic holes.

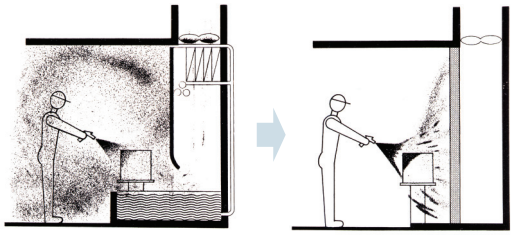
Adsorption all kind of pigment, oil, dyes, mist, glass, fiber, plastic··· etc.

13 mmAq - average pressure drop.



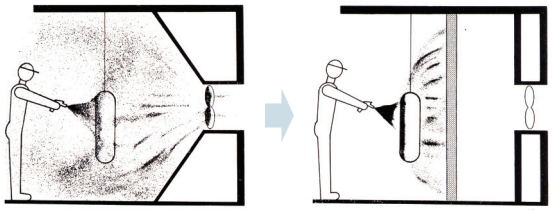
Advantages of Dry Paint Booth Filter System.

No needs water



- No water curtain.
- No cleaning or repairing of pump, valve and water tank.
- Over 99.5% mists are directly absorbed.
- Good energy efficiency and safety.

Improvements of dry process



- No fly away ash and stick.
- The worker isn't covered by mist.

Filter Cartridges for Dustking

0.2㎛~2㎛ Particles 99.95% over

Model Number	General / NL	Antistatic / ALU	Water proof / PTFE	Antistatic+Water / ALU + PTFE
	CF-800NL	CF-800ALU	CF-800PTFE	CF-800ALU+PTFE
	CF-1200NL	CF-1200ALU	CF-1200PTFE	CF-1200ALU+PTFE

General Information 〈 General characteristics 〉

Base Media	Polyester	Polyester	Polyester	Polyester
Surface Finishing	n/a	Aluminum coating Antistatic	PTFE Coating Oleo/ Hydrophobic	ALU+PTFE Coating Antistatic Oleo/ Hydrophobic
Filter Size	2 Decitex	2 Decitex	2 Decitex	2 Decitex
Color	White	Gray	white	Gray
Weights	260 g/㎡	265 g/㎡	265 g/㎡	270 g/㎡
Thickness	0.6 mm	0.6 mm	0.6 mm	0.6 mm
Air Permeability At 200Pa.	570 ㎥/㎡h	520 ㎥/㎡h	520 ㎥/㎡h	510 ㎥/㎡h
Temperature Condition	120℃ (Dry) 90℃ (Moisture)	120℃ (Dry) 90℃ (Moisture)	120℃ (Dry) 90℃ (Moisture)	120℃ (Dry) 90℃ (Moisture)

Chemical Resistance 〈 Chemical characteristics 〉

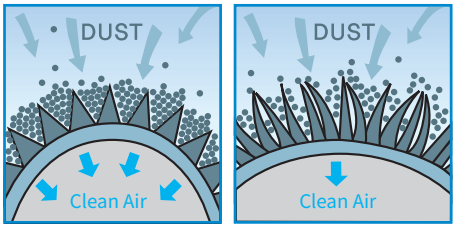
Oil & Water Resistance	Good	Good	Excellent	Excellent
Hydrolysis Resistance	Fair	Fair	Good	Excellent
Acid Resistance	Good	Good	Good	Good
Alkaline Resistance	Fair	Fair	Good	Good
Electrical Resistance in Ohm	n/a	1.0×10^3	n/a	1.0×10^3
Dust Release	Excellent	Excellent	Excellent	Excellent

Filter Test 〈 Filter test 〉

Application Category After BIA	U.S.G.C	U.S.G.C	U.S.G.C	U.S.G.C
BIA Test	Nr. 9508410 / 6210	Nr. 9508410 / 6210	Nr. 9508410 / 6210	Nr. 9508410 / 6210
Dust Operating Efficiency	99.95% on 0.2㎛~2㎛	99.95% on 0.2㎛~2㎛	99.95% on 0.2㎛~2㎛	99.95% on 0.2㎛~2㎛
Application Area	metal, wood, chemical, cement, food, paper, pharmaceutical, welding smoke, shot blasting, foundry dust, metallic fume	metal, wood, chemical, cement, food, paper, pharmaceutical, welding smoke, shot blasting, foundry dust, powder	metallurgical powder oily weld fume pharmaceutical, welding smoke, shot blasting, foundry dust, powder	activated carbon, pharmaceutical, powder paint, welding smoke, shot blasting, foundry dust, uranium

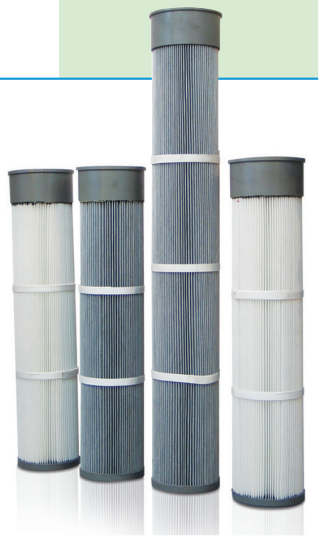
Advantage of filter

- Easy to install and replace
- Larger filtration area than general bags
- A good many pleats
- Plastic cage which doesn't rust
- Less air consumption
- Washable
- Polyurethane applied to top & bottom
- Venturi fastening without gasket after inserting Bag
- Maintenance cost reduction



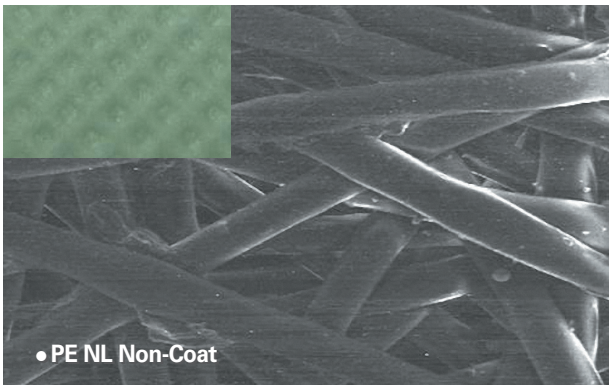
DUST KING Filter

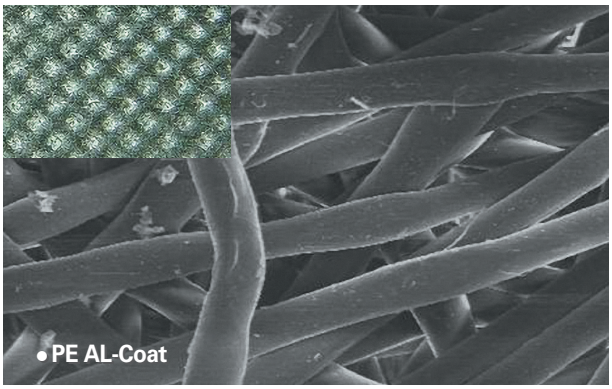
Conventional Dust Collector Filter

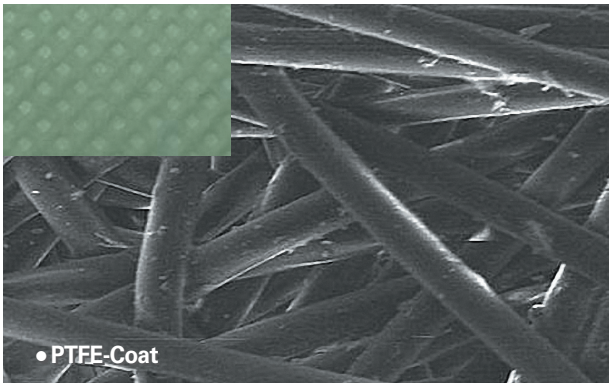


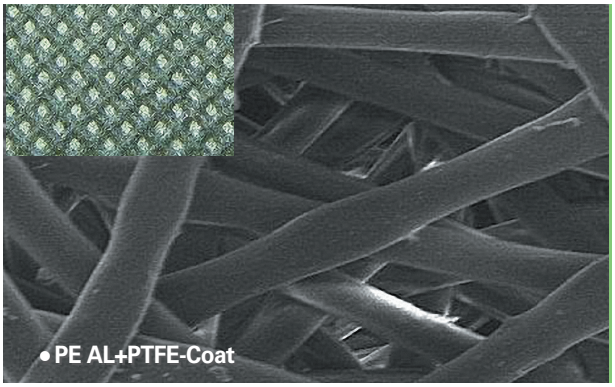
Dustking Filter Media (600X)

New (Non use)

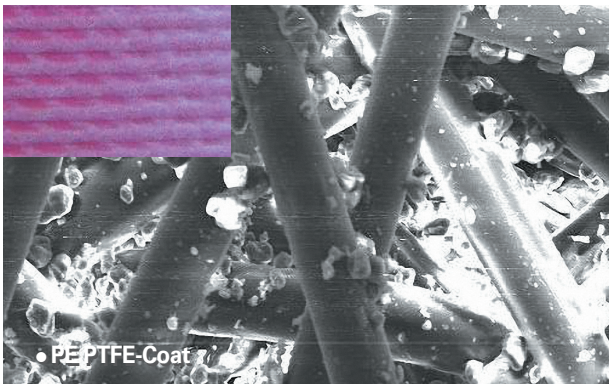


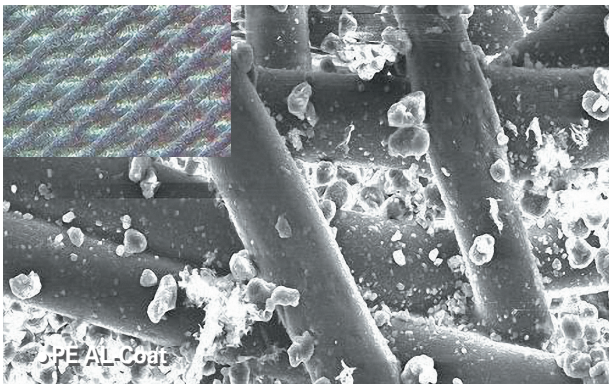




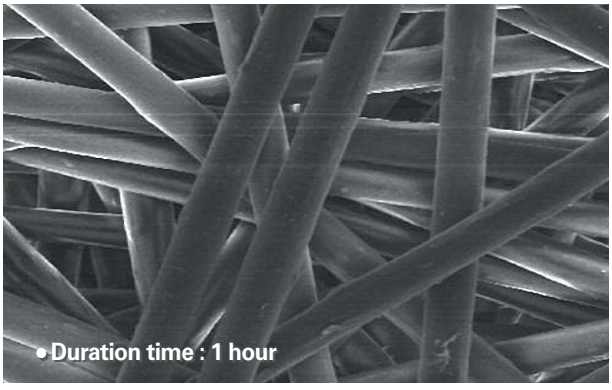


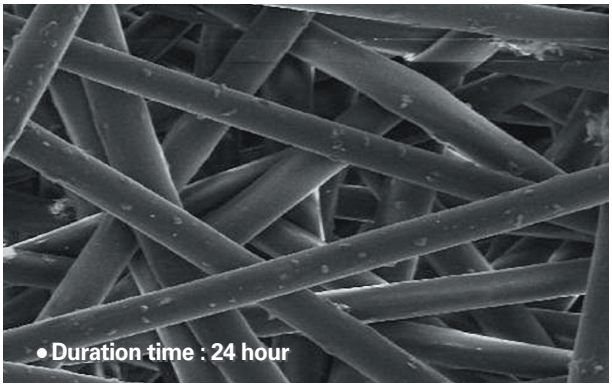
Use





Heat Resisting Test [Temp : 120℃ (dry) / PE NL]

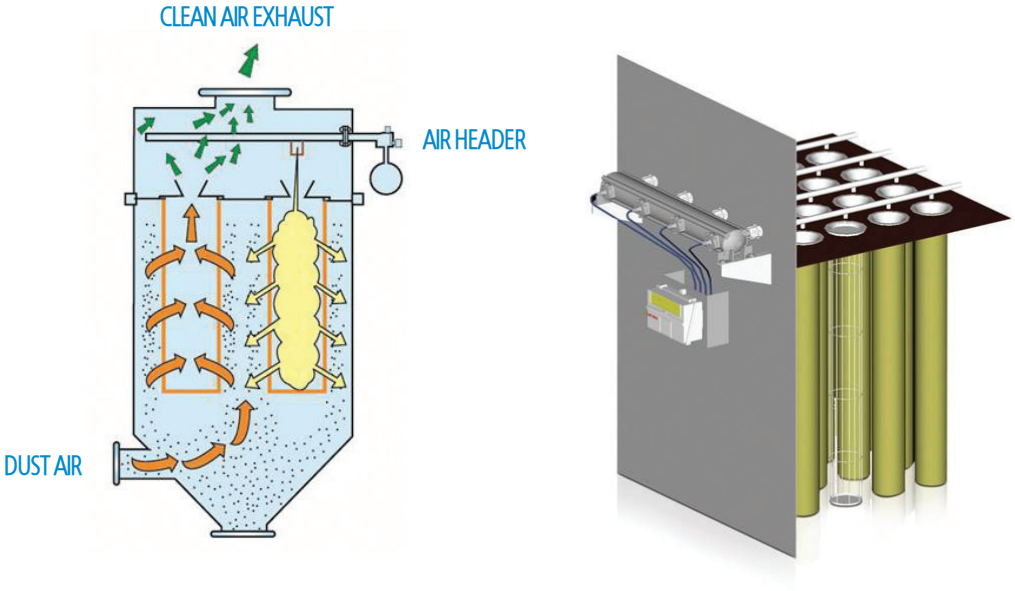




Air Pulse Jet Type

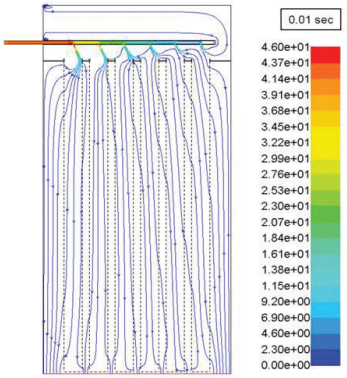
What is Air Pulse Jet Type ?

- Among the bag type dust collectors, Air Pulse Jet Type is the most common. It utilizes pulsing jets of air to disturb the dust particles settled around the filter bag. This result in very stable and continued operations allow more efficient and efficient and effective dust collecting performance (dust particles as fine as 0.2㎛are collected).

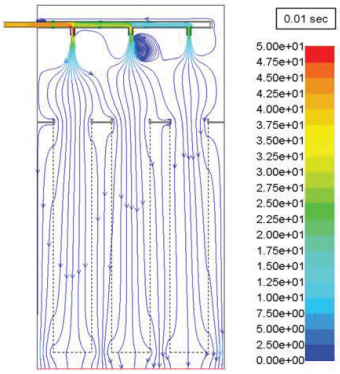


Streamline comparison of pulsing dust collectors

Without Injection nozzle



With Injection nozzle



Honam thermal power plant Bituminous coal

Jeil Industries Inc

Kobe Steel Ltd

Applications

Industry	Target Particle / Target Equipment	Industry	Target Particle / Target Equipment
Ceramic	Calcium, Silica, Cement, Powered Coal, Coal, Casting, Sand, Clay, Ceramic	Metal	Iron, Powdered Coal, Aluminum smelting furnace, Casting, Pearl Powder, Ferrite
Food / Pharmaceutical	Starch, Flour, Curry Powder, Powdered Milk, Cocoa, Yeast, Synthetic Detergent	Chemical	Pigment, Dye, Resins, Carbon Black, Manganese, Molybdenum
Environment	Coal Boilers	Others	Asphalt • plant

Filter Bag Guide

Use for dust collection	Process	Bag Filter Group (Pulse Air)	The Operating Temperature(℃)	Chemical Resistance	
				Acid	Alkaline
Cement	Raw Mill	Polyester(P.E.T)	110℃	Good	Poor
	Kiln Gas & Clinker	Nomex	200℃	Fair	Very Good
		Glass	260℃	Very Good	Poor
	Cement Mill	Polyester(P.E.T)	110℃	Good	Poor
	Coal Mill	Polyester(P.E.T)	110℃	Good	Poor
Iron, Steel-making & Casting	Electric Furnace	Polyester(P.E.T)	110℃	Good	Poor
	Building dust collection	Polyester(P.E.T)	110℃	Good	Poor
	Short Blast	Polyester(P.E.T)	110℃	Good	Poor
	Cupola	Nomax	200℃	Fair	Very Good
	Line burning furnace	Polyester	110℃	Good	Poor
Carbon Black	Carbon Black (Carbon Black manufacture)	Nomex	200℃	Fair	Very Good
		Glass	260℃	Very Good	Poor
	Tire manufacture	Polyester(P.E.T)	110℃	Good	Poor
Non metal melting	Fume collection	Polyester(P.E.T)	110℃	Good	Poor
		Non metal melting	70℃	Excellent	Excellent
		Ryton	190℃	Excellent	Excellent
		Acrylic	120℃	Good	Fair
Plastic P.V.C, A.B.S Resin	Collection of raw materials	Polyester(P.E.T)	110℃	Good	Poor
Boilers	Tunber boiler	Nomax(Antiacid)	200℃	Good	Very Good
		Glass	260℃	Very Good	Fair
		Acrylic	120℃	Very Good	Fair
	Bunker C oil boiler	Nomax(Antiacid)	200℃	Good	Very Good
		Glass	260℃	Very Good	Poor
		Ryton	190℃	Excellent	Excellent
	Coal boiler	Nomax(Antiacid)	200℃	Good	Very Good
		Glass	260℃	Very Good	Poor
		Ryton	190℃	Excellent	Excellent
		Tefaire	250℃	Excellent	Excellent
		Teflon	240℃	Excellent	Excellent
Aspalt	Aspalt Production	Nomax	200℃	Fair	Very Good
		Nomax(Antiacid)	200℃	Good	Very Good
		Acrylic(Dralon)	120℃	Very Good	Fair
기타 etc.	Collection of general dust	Polyester(P.E.T)	110℃	Good	Poor

Fume Collector

Fume Collector

- Fume is a solid material with its diameter of 1㎛or less, generated in process of physical or chemical reaction such as combustion and sublimation, and its collecting facility is decided according to characteristics and structural form of gas.
  The monomer fume, generated in process of pressing and injection, is effectively collected by diatom, a colloid material that has excellent adsorbability and porosity.
- Our patented fume collector absorbs fumes by passing gas through the diatomite-coated filter bag of a dust collector.
- The repetitive operation of mist removing, diatomite coating and collecting gives effective performance to investment cost and maintenance cost. Our system is widely used for plastic compounding factory.

Features

- Simple structure and easy operation due to using a general bag filter dust collector.
- Excellent fume eliminating performance for investment cost. (Stylene monomer elimination rate: 95%)
- Relatively low monthly diatom consumption (monthly consumption: capacity x 1.2kg) and easy maintenance
  Diatom Consumption (kg/month): The above values in the table can vary according to operational experience and conditions of a site.

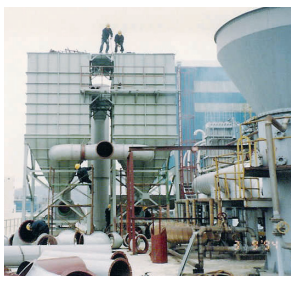
Applications

- Plastic Compounding Factories: ABS, PS, PP, HDPE, LDPE, Etc.
- Hydrocarbon Monomer (SM, AN, BD, etc.) and adhesive materials (vapor, oil mist, etc.) generating places.
- Asphalt and diesel fume generating places.

SPECIFICATION

Model	Gas Rate (㎥/min)	Body Press Drop (mmAq)	Width (mm)	Length (mm)	Height (mm)	Diatomite usage (kg/Month)	Collector Basic Model
HSFC-5	50	60	1280	1280	3450	60	HSBF-15 x 2
HSFC-10	100	60	1740	1740	3600	120	HSBF-10 x 2
HSFC-15	150	60	1970	1970	4000	180	HSBF-15 x 2
HSFC-20	200	80	2450	2450	4400	240	HSBF-20 x 2
HSFC-25	250	80	2450	2900	4400	300	HSBF-25 x 2
HSFC-30	300	80	2450	3200	4400	360	HSBF-30 x 2
HSFC-35	350	80	2450	3900	4400	420	HSBF-35 x 2
HSFC-40	400	100	2900	3600	4400	480	HSBF-40 x 2
HSFC-45	450	100	2900	4300	4400	540	HSBF-45 x 2
HSFC-50	500	100	2900	4800	4400	600	HSBF-50 x 2

- The level of a above table may vary depending on experience and field conditions




A/C Tower

A/C Tower

- A/C Tower uses “activated carbon, having a large inner surface area with porous fine holes and high adsorption performance”, to collect solutions, to eliminate odors and to purify gas in processes.
- Activated carbon shows excellent effect in adsorbing organic vapor, and most of organic gases regardless of density and moisture containing ratio.
- Adsorption process can be divided into the adsorption process and the regeneration process, in which the adsorbed material is separated and removed mostly with overheated water vapor (340℃, 0.3 kg/㎠G).
- Our model is a kind of the fixed bed absorber. For the continuous treatment of inflow gas, two of the AC Towers are installed in parallel to adsorb dust and regenerate air by turn.

Features

- Simple Operation and Manipulation / Low Maintenance Cost due to Reuse of Active Charcoal.
- Activated carbon, used as an adsorber, is effective in adsorbing organic vapor, and separates and collects wide range of solutions with low boiling points.
- Regeneration of active charcoal is simple when adsorbing performance gets declined during operation.
- Due to the short time required for adsorption, the installation space is not large considering treatment capacity.
- Excellent Collecting Ratio for Organic Gas. (98%)

Adsorbable Gases

- VOC, Most of NOX and SOX.

※ Non-Adsorbable Polluted Gases: H_2S, SO_22, CH_3SH, NO_3, Some of Livestock Odors

Applications

- Chemical Plants, Paint Manufacturing Factories, Printing Solutions, Plastic, Extracting Process, Fermentation Process, Food Industry, Leather Factories, etc.

SPECIFICATION

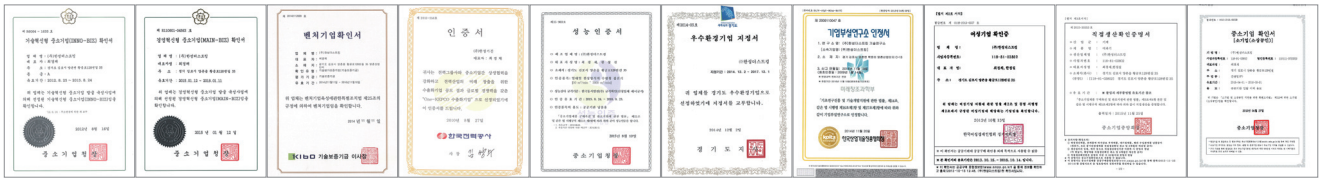
Model	Gas Rate (㎥/min)	Body Press Drop (mmAq)	A/C VOL. (㎥)	Body size		
				W (mm)	L (mm)	H (mm)
HSAT-10	100	90	2.5	2400	1900	1900
HSAT-20	200	260	3.0	2400	3500	2400
HSAT-30	300	190	3.5	2400	4000	2400
HSAT-40	400	320	4.0	3000	2200	2400
HSAT-50	500	360	4.5	3000	2700	2400
HSAT-60	600	400	5.0	3000	3000	2400
HSAT-70	700	420	5.5	3000	3000	2700
HSAT-80	800	460	6.0	3000	3000	3000
HSAT-90	900	500	6.5	3000	3000	3000
HSAT-100	1000	540	7.0	3000	3000	3000

- The level of a above table may vary depending on experience and field conditions



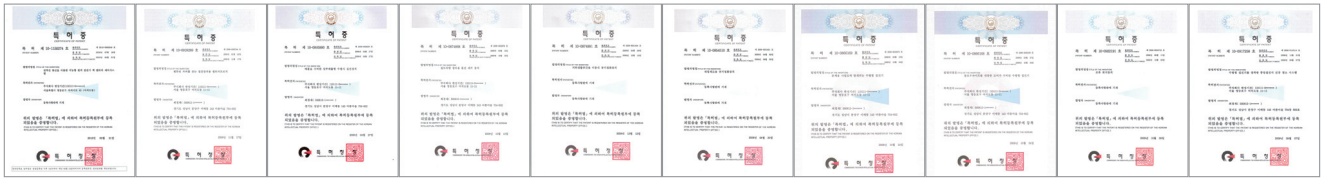

Down Flow

Certificates for dust collector

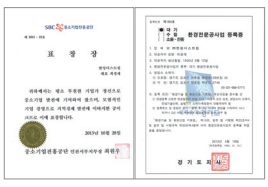


Commendations

Trade marks and patents



Retaining licenses



Plague of appreciation

Review

Commendation

Prime Minister-2006 Korea Technology Contest

Yonsei Univ. - 2006 Yonsei Grd. School Engineer

Received prime-ministerial citation from KOAMI

Application of new technology

Received appreciation plaque from CEO of Korea Western Power

Korea East West Power Complation in Honam thermal power plant

Heo-Yup, president of Korea South-East Power

Overseas markets and etc.

Selected as excellent environmental firm

Japan Fair

Awarded "One Million Dollars Export Tower" on Trade Day

The 50th anniversary of establishment of diplomatic relation between Korea and Japan Tokyo

Exhibition in Saudi Arabia

CE Certification TEST

KBS TV program Interview

Exhibition in Dubai

Domestic exhibition

TV Interview at the exhibition in Japan

Headquarter and Factory

Headquarter view

Office

Kimpo factory

Gallery

Plant, Environmental Facility Division

Shipment view

Cleaning service to Yeongheung thermal power

Wistek Co., Ltd

Japan TOKUYAMA

LG Chemistry PVC

Nestle Japan

Kumho Petrochemical

Dusan Infracore

Samcheonpo thermal power

Hanju salt Corporation

LG Chemistry PVC

LG Chemistry ABS

Export Division

CNOOC LG (China)

Hankook Tire (Indonesia)

Wiscom (China)

YOKOHAMA TIRE (Japan)

LG Guangzhou (China)

Gallery

Steel

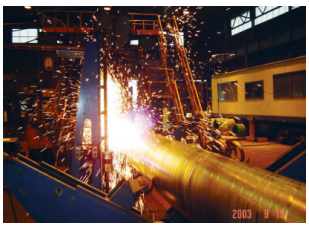
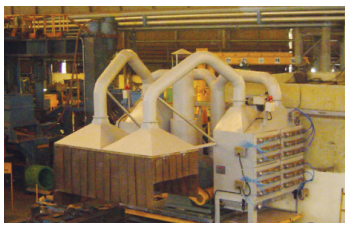
Chemical, Plastic, Rubber

Food, Pharmaceuticals, Agricultural pesticides

Tire, Semiconductor, Car




Laser, Plasma, Welding Fume

Nuclear Energy


Battery, Toner, Carbon



Cement, Shot blast, Wood



Rail road


Gallery

POWER PLANT

Dangjin thermal power TRIPPER

Korea Westernpower LIME STONE

Posco Guangyang bituminous coal conveyance

Yeongheung thermal power BIOMASS

Honam thermal power bituminous coal

Honam thermal power bituminous coal

Taean thermal power coal equipment

Dangjin thermal power coal equipment

POWER PLANT

Donghae thermal power cleaning system

Yeosu thermal power cleaning system

Donghae thermal power cleaning system

Hadong thermal power cleaning system

Samcheonpo BIO MASS

Samcheonpo thermal power

Boryung ASH BIN VENT

New Boryung thermal power Fly ash silo vent filter

Yeongheung thermal power wood pellet

DustKing™

Always here for *you*

Module type dust collector by down flow

Business Areas

Dust Collectors
Fume Collectors
Vacuum Cleaner
Cyclone & Multi-Cyclone
Wet Scrubber / Impinjet Scrubber
Activated Carbon Tower
Dry Paint Booth
PYRO SCREEN

Design by AD.Partner / 2016.4 / 02-598-2228

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