



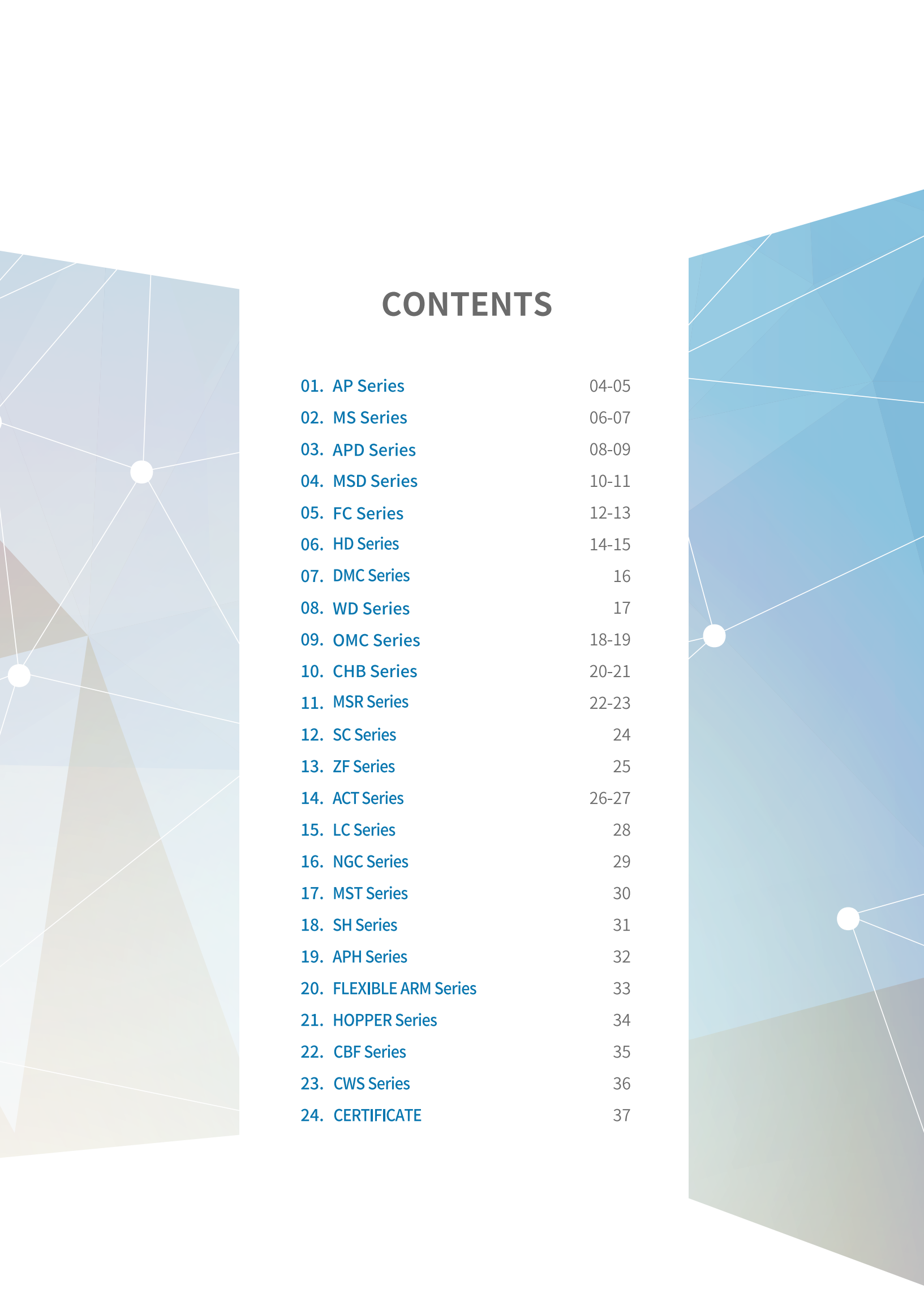
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Environment, Health and Safety

DUCLEAN

WELDING FUME ELIMINATOR
SMALL SCALE DUST COLLECTOR
VACUUM COLLECTOR
MIST COLLECTOR
FUME ELIMINATOR
VACUUM CLEANER
LARGE VOLUME DUST COLLECTOR





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HISTORY

- 2021 Acquired UL Certification AP-300, AP-500, AP-300/500
Acquired CE Certification APH-300/1500SE-INV, APDI-750FE-HAPA
Acquired ATEX Certification AP-X-CONTROL PANEL, AP-X-750/300FE-HEPA
- 2020 Acquired CE Certification APH-1000ME-INV-HEPA
Acquired CE Certification APH-200/1000-INV, APD-750/1500-INV, DUM-15, PCI-30, APH-1000ME-INV-HEPA
Acquired UL Certification AP-1000, APD-2000/INV, PCI-30
Registered the patent, MSC-20, SH-300/729
- 2019 Acquired UL Certification AP-200
Acquired UL Certification APD-200/100, APD-300/729, APD-500, APD-500/750-HEPA, APD-500/HEPA
Registered the patent, MSC-20, SH-300/729
- 2015 Renewal of Excellent Vision Company (Certificate No. : R6074-1620)
Acquired CE Certification (FC Series)
Registered the trademark, DUCLEAN
Registered the patent of Safety Installation structure for duct collector
Registered the patent of Wet Whirlpool type dust collector
- 2014 Changing company name from Chungho C.A Co., Ltd. to Duclean Co., Ltd.
Registered the patent of Fire detection for fume collector
Registered the patent of using Centrifugal force for oil mist collector
Registered the patent of dust off equipment for dust collector
- 2013 Registered the patent of Bag Filter Easily Changeable Dust Collector
Participated in 2013 International Mold and Metal Processing Exhibition in Dongguan, China
Being selected as Excellent Vision Company in 2013 by Incheon Metropolitan City
Participated in 2013 Korea Machinery Exhibition in Shanghai (KOMAF Shanghai 2013)
Self developed Mobile PC-based Sales Support ERP System
- 2012 FTA country of origin certified exporter certification (Certificate No.: 020-12-200288)
Developed the new type of PCI-N (Automatic Injection Equipment)
[Patent registration] Registered Oil Mist Collector and one other patent.
Developed APN Series (Quick Change Cartridge type)
Submit the products to SIMTOS 2012 Seoul International Machine Tools Exhibition (KINTEX Apr. 17 ~ .22)
[Patent registration] Desorption Device for Dust Collector
Filter Equipped with Blasting Nozzle and Brush
Newly established additional overseas agents – Australia and Vietnam
Developed ACT Series (Portable Scrubber Adsorption Tower)
- 2011 [Patent registration] 3 patents including Desorption Device for Filter
Acquired CE (EU Mark) Certification: LFC Series, ZF Series
Design registration of MST Series Workbench Integral Dust Collector
Developed and launched LFC series Laser Fume Dust Collector
Acquired CE (EU Mark) Certification: MS-HS Series (K3731/M11)
Renewed the certification of International Quality & Environment Management System (ISO 9001:2008 / ISO 14001:2004)
Acquired CE (EU Mark) Certification: API-200/629 (K3682/M11)
- 2010 Registered the patent of Intake Device for Vortex Generation Using Compressed Air (Patent No. 10-0970592)
Being appointed as Export Promising Small & Medium Business (No. 10 Incheon-62)
Acquired CE (EU Mark) Certification: (NFC Series)
Registered the patent of Oil Mist Collector (ZMC)
- 2009 Developed Acoustic Pressure Device for Removing Asbestos (ASC Series)
Acquired Europe BIA TEST "M" Grade of Nano Filter
Registered Air Pollution Prevention Facility Business
Participated in Vietnam Hochiminh city International Machinery Exhibition (Hochiminh city Jul. 8 ~ 11)
Developed Air Pulse Type Table Integral Dust Collector (WT-Series)
Acquired CE (EU Mark) Certification (MDC-Series)
Developed Table Integral Dust Collector (MST-Series)
Being selected as KORTA Guarantee Brand Company
Developed Ceramic Filter Dust Collector (CFC-Series)
Developed Vacuum Automatic Collector (MSR-629HB-cy)
Acquired CE (EU Mark) Certification (APD-Series)
Developed New Grind Integral Dust Collector (NGC-Series)
- 2008 Being appointed as Export Promising Small & Medium Business
- 2007 Developed Movable Fume dust Collector - CHB Series
Developed Descending Air Current Type Dust Collector - DFC Series
Being appointed as Export Leading Company in the fields of Machinery & Plant (KOTRA)
- 2006 Constructed, expanded and moved Head Office/Factory (148-90 Seoun-dong, Gyeyang-gu, Incheon, Korea)
Being appointed as INNO-BIZ: Small & Medium Business Administration No. 6074-1620
Being appointed as Promising Small & Medium Business (No. 06-1912)
Being appointed as Venture Business (Small & Medium Business Administration (No. 061724031-1-00079)
Developed Mist Collector ZM Series
- 2005 Participated in Korea Machinery Exhibition (KINTEX 10.26~10.30)
Participated in International Environment Exhibition in China (Jun. 7 ~ 10)
Participated in International Environment Technology Exhibition (COEX Jun. 13 ~ 16)
Acquired ISO 14001 (Environment Management System) Certification
- 2004 Acquired CE Certification (AP, MS, CH, SC Series)
Developed SC-50VH/M Subminiature Cartridge Type Dust Collector
Developed Subminiature Dust Collector SC-50
- 2003 Joined Korea International Trade Association (KITA)
Joined Korea Machinery Industry Promotion Association
Developed Grinder Integral Dust Collector - GC Series
- 2002 Developed Bag Filter Easily Changeable Dust Collector - AM Series
Developed Fume Eliminator - FC Series
Bag Filter Type Explosion Safety Dust Collector - MSD Series
- 2001 Acquired ISO 9001 Certification
Air Pulse Type Explosion Safety Dust Collector - APD Series
Established CHUNGHO C.A. Co., Ltd. (Incorporation)
- 2000 Developed Solder Smoke & Odor Eliminator - ZF Series
Developed Micro Dust Collector - MDC Series
- 1999 Developed Vacuum Dust Collector - MSR Series
Developed Oil Mist Collector - OMC Series
- 1998 Developed Multipurpose Intake Collector - MC Series
Developed Laser Engraving Machine & Odor Eliminator - LC Series
- 1997 Developed Fume Collector - CH Series
(Adopted Media Type Filter for the first time in Korea)
Developed Duct Cleaning Machine for the first time in Korea
- 1996 Established CHUNGHO C.A.

Industrial property rights and status of certification

[Patents : 24]

2021	Scrap separator equipped with airflow direction adjusting plate for scrap collection device [10-2370956]
2020	Separation-Type of Dust Collector for Installation Inside Clean Room [10-2071349]
2019	Scrap collector with Scrap Back Flow Prevention[10-1937827]
2018	Scrap Collector [10-1896490]
2015	Back Flow Preventing System for Dust Collector [10-1560598] Safety Structure for Dust Collector using Hydraulic System [10-1494092] Wet Vortex Type Dust Collector [10-1483392]
2014	High speed collision type oilmist collector [10-1448438] Installation structure of pre-filter for gas adsorption tower that heighten filtration area [10-1448422] Fume collector fire detection [10-1434181] Wireless Control System for Dust Collector [10-1390201] Dust Desorption Device for Dust Collector [10-1367470]
2013	Calcium Carbonate Automatic Feeding Device [10-1344133] Registered Dust Eliminator for Dust Collector [10-1307600] Oil Mist Collector Utilizing Centrifugal Force [10-1289556] Registered Easily Changeable Filter Dust Collector [10-1254924]
2012	Desorption Device for Dust Collector Filter Equipped with Air Blowing Nozzle and Brush [10-1133547]
2011	Dust Collector Equipped with Horizontal Filter [10-1089457] Desorption Device for Dust Collector Filter Equipped with Air Blower [10-1089388] Desorption Device for Dust Collector Filter Equipped with Intake Part [10-1089387] Desorption Device for Dust Collector Filter [10-1089386] Oil Mist Collector [10-1067147]
2010	Intake Device for Vortex Generation Utilizing Compressed Air [10-0970592] Oil Mist Collector (ZMC) [10-0942900]

[Utility models : 13]

2018	Dust collector handle [20-0486282]
2017	Oil mist collector [20-0484735] Oil mist collector filter [20-0484737]
2012	Easy-change filter grinder dust collector [20-0457905]
2005	Soldering fume eliminator [0385999] Fume eliminator [0385151] Magnetic switch for sander dust collector [0384867] Dust off device for dust collector filter [0384771]
2004	Dust eliminating device for dust collector filter [034993]
2003	Dust collector for painting [0320056] Dust dust collector [0304131] Grinder dust collector [0302545]
2001	Soldering fume collector [0259803]

[Certificates]

2012	Certificate as export trader for FTA preferential tariff certificate of origin' (Ref. #020-12-200288)
2011	2certification (ISO9001:2008 / ISO14001:2004)
2010	Leading Export Enterprise in Machine & Plants
2009	KOTRA Seal of Excellence Member (KOTRA 2009-130)
2007	R&D laboratory (Ref. 20072700)
2006	Small & Medium Sized Enterprise with Technical Innovation (INNO-BIZ) Recognized as a venture business Recognized as a small & medium sized enterprise with HIGH GROWTH POTENTIAL

[Brand and service labels]

2006	Dust collector, etc. (5 items) (MISZERO) (Ref. 40-0659549)
2004	Dust collector, etc. (5 items) (DUECLEAN) (Ref. 0576634) Dust collector, etc. (5 items) (DUECLEAN) (Ref. 0576633)
2002	Dust filtration business, etc. (2) (Ref. 0576633)

[Design registrations]

2006	Control panel for dust collector (small) (Ref. 0407056)
2005	Work table attached dust collector MST series (Ref. 30-0600061) Control panel for dust collector (large) (Ref. 3099271)
2002	Soldering fume eliminator (Ref. 0304592) Soldering fume eliminator (Ref. 0295904)

[UL certificates] UL File No. E510787

2020	Dust collectors for dry dust (APD Series) (APD-2000/INV) Dust collectors for dry dust (AP Series) (AP-1000) Calcuim Cabonate Supply Equipment (PCI Series) (PCI-30)
2019	Dust collectors for dry dust (APD Series)(APD-200/100, APD-300/729, APD-500, APD-500/750-HEPA, APD-500/HEPA) Dust collectors for dry dust (AP Series) (AP-200)

[CE certificates]

2021	Portable Dust Collector (APDI-750-HEPA) 21009-9901SGG Explosion - Proof (AP-X-300/750FE-HEPA, AP-X-aFE-Control Box) Dust-Explosion Safety Dust Collectors_APD-x
2020	Portable Dust Collector (APD-aSE-INV-b) (K12525/E20) Portable Dust Collector (APD-aFE-b) (K12523/E20) Portable Dust Collector (PCI-30) (K12520/E20) Portable Dust Collector (APH-a-INV-b) (K12527/E20) Portable Dust Collector (DUM-15) (K12518/E20) Dust Collector (MSC-20) (K12483/M20) Portable Dust CollectorR (AP-xSE-INV-y) (K12486/M20) Portable Dust Collector (AP-200/629, AP-300/729, AP-a, API-a, APK-a Series) (K12253/M19) (a = 100,200,300,300,500,750,1000,1500,2000,3000) Portable Dust Collector (APD-x) (K11527/M18) (x = 100,200,300,300/729INV,500,750,1000,1500,2000,3000) Portable Dust Collector (APD-a-b) (K11737/M18) (a = 100,200,300,300/729INV,500,750,1000,1500,2000,3000) (b = HEPA or Blank)
2017	Portable Dust Collector (APD Series) (K10240/M15) Scrap Collector (DUM-15) (K10867/M17) Fume Odor Eliminators(LC-339) (K10975/M17) Calcuim Carbonate Supply(PCI-30) (K10868/M17) Portable Dust Collector (APH-200,300,500) (K10870/M17)
2016	Portable Dust Collector (LC-50, 100, 200) (K10240/M15) Fume Eliminator (CHB-200, 300, 500) (K10239/M15) Portable Dust Collector(AP, API, APK Series) (K10238/M15) OIL Mist collector (OMC-N, BX, LE) (K9989/M16) Portable Dust Collector (AP, API, APK Series) (K10238/M15) Fume Eliminator (CHB Series) (K10239/M15) Portable Dust Collector (LC Series) (K10240/M15) Portable Dust Collector (MS Series) (K10241/M15)
2015	Portable Dust Collector (FC-Series) (MD-150201)
2011	Fume Collector (LFC-750, 1000, 1500) (TA380111541) Fume Collector (ZF-100, 300, 500) (TA380111540) Bag Filter Type Dust Collector (MS-xHS) (K3731/M11) MS-xHS (x = 50, 100, 200, 300, 500, 750, 1000, 1500) Cartridge Type Dust Collector (API-200/629) (K3682/M11)
2010	Fume Eliminator (NFC-500, NFC-500HK, NFC-750, NFC-750HK, NFC-1000, NFC-1000HK) (K3126/M10) Fume Eliminator (NFC-1500, NFC-1500HK) (K3127/M10) Fume Eliminator (NFC-200, NFC-200HK, NFC-300, NFC-300HK) (3125/M10)
2009	Micro Dust Collectors (K1713/M09) Cartridge Type Dust Collector (AP, API Series) (K1481/M09) Bag filter type dust collector (MS series) Dust-explosion safety dust collectors (APD-Series)(K1470/M09)
2008	Fume Odor Eliminators(LC-series) (K1347/M08) Mist Collectors(OMC-series) (K1409/M08) Vacuum Dust Collectors(MSR-series) (K1346/M08) Down Flow Dust Collector(DFC-series) (CHCN-08092) Fume Eliminator(FC-series) (CHCN-08093) Mist Collector(ZMC-series) (CHCN-08091)
2007	Welding Fume Eliminator (CHB-Series) (CHCA-041102)
2004	Dust Collector(SC-series) (K1281/M04) Welding Fume Eliminator(FUME-series) (K1282/M04) Cartridge Type Dust Collector (AP-Series, APK-200) (K1280/M04)

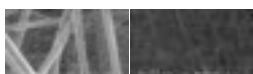
AP Series

Air Pulse Type Dust Collector of Easy Filter Management



Mixer works / Powder input works / Substrate processing works / Burlap bag works / Metal processing works / Air transportation slot / Sander works / Casting cutting works / Mixing works / Drilling works, Cutting works / Cutting out works / Crushing works / Stone carving works

• Filter



[Membrane Filter]
6.4mm x 50LM / 6.4mm x 500LM

- It is possible to collect fine dust as well due to processing filter medium to the cartridge shape and widening the filtration area.
- Replacement is easy and simple due to the integration of filter and cell plate.
- **Filter Type** : Nano, Nomex, PTFE, PET choose according to the work process.
- **Filter Type (Post-Processing)** : Water-proof Coated, Flame Retardant, Aluminum Coated, etc.

• Efficient Filter Cleaning System



- **Automatic Air Pulsing** when the differential pressure meets the setup value.
- After turn-off, pulsing starts in several cycles for maximum efficiency.
- Set-up in pulsing type, cycle, time available.

• TURBO BLOWER



The absorptive power has been increased using the turbo fan of high air volume and high wind pressure self-produced by super-precision press mold, and non-vibration and low noise are realized.

• Digital Controller



- **Digital Control Panel** : Soft LED touch switch in color LCD.
(Indication the digital differential pressure and digital current value, alarm, status)
- **Digital Differential Pressure Control** : Indication over differential pressure by pressure sensor.
- **Digital Current Indication** : Available to catch Overload, Disconnection, Unbalanced Current by CT.
(Current Transformer)
- Operation / Stop at Panel, Remote mode, Link, RS485PC Communication.
- **Pulsing** : Manual, Semi-Auto, Auto, External Signal.

Option

Patent Applied 025162



Vacuum Cleaner Attached
Type APV Series



AP-300/FA(3)
(Flexible Arm Equipped Type)



API Series
BASKET TYPE

STANDARD DIMENSION

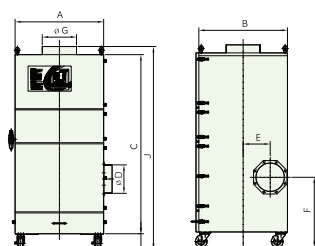


FIGURE 1

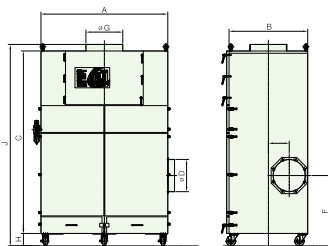


FIGURE 2

Installation

Patent Applied 10-1254924



Plastic, Metal Fracture Process



Cosmetic Bottle Lid Process



Wood Process



Drilling Process



Grinding Process



Pharmaceutical Process

SPECIFICATION

TYPE		AP-100	AP-200	AP-200/629	AP-300	AP-500	AP-750	AP-829	AP-1000	AP-1500	AP-2000	AP-3000
POWER		220V 1P, 220V / 380V 3P 50Hz, 440V(Optional), 60Hz(Optional)			220V / 380V 3P 50Hz, 440V(Optional), 60Hz(Optional)							
BLOWER	CMM (m ³ /min)	10	25	3	33	54	67	9.2	83	125	167	250
	CONSTANT PRESSURE(mmAq)	160	160	1,458	160	160	174	3950	174	174	174	181
	MOTOR (KW)	0.75	1.5	3.7	2.2	3.7	5.5	8.6	7.5	5.5 x 2SET	7.5 x 2SET	11 x 2SET
FILTER	SIZE (WxL)	Ø145 x 500L x 75					Ø145x800Lx75	Ø145x500Lx75	Ø145 x 800L x 75		Ø165 x 800 L x 75	
	QUANTITY (EA)	4	6	6	9	12	12	6	18	24	24	32
	FILTRATION SIZE(m ²)	7.5	11.25	11.25	16.9	22.5	36	11.25	54	72	100.8	134.4
	FILTRATION SPEED (m/min)	1.3	1.9	0.31	1.9	2	1.7	1.25	1.6	1.7	1.6	1.7
	MATERIALS	POLYESTER										
	SHAKING DUST OFF	TYPE OF AUTO AIR PULSE										
NUMBER OF SOLENOID VALVES		2	3	3	3	4	4	3	6	8	8	8
VOLUME OF AIR CONSUMPTION (Nℓ/min)		20	20	20	30	45	50	30	50	70	70	70
SIZE (mm)	A	520	620	620	770	850	910	620	1,370	1,750	1,950	1,980
	B	520	620	620	770	770	830	720	850	900	1,000	1,250
	C	1,349	1,480	1,835	1,555	1,605	1,965	1,650	1,970	1,970	2,070	2,250
	D(Ø)	150	200	65	250	250	300	65	350	400	500	600
	E	170	190	190	235	235	240	295	225	250	230	305
	F	566	577	968	609	609	759	749	759	785	815	803
	G(Ø)	200	200	125	300	300	350	125(100)	400	450	550	650
	H	107.5	107.5	82	134	134	134	86.5	134	160	160	149
	J	1,551	1,667	1,775	1,759	1,809	2,169	1736.5	2,174	2,200	2,310	2,479
CAPACITY OF DUST BOX(ℓ)		16	25	20	40	45	55	25	100	100	110	150
APPROX. WEIGHT(kg)		135	190	210	310	390	780	250	920	980	1,080	1,150
FIGURE		FIGURE1							FIGURE2			

These specifications may be changed without notice in order to improve capability.

MS Series



The dry type universal dust collector has the characteristic of easy filter replacement and is economical.



Mixer works / Powder input works / Substrate processing works / Burlap bag works / Metal processing works / Air transportation slot / Sander works / Casting cutting works / Mixing works / Drilling works, Cutting works / Cutting out works / Crushing works / Stone carving works



MS-200M



• Efficient Filter Cleaning System [Bag Filter Type]

- **Manual (H type)** : It eliminates dust by shaking a handle, and the simple type is economical.
- **Automatic (M type)** : Silent and powerful automatic vibration automatically dusts with the optimal cycle at turning off power as the operation pattern is programmed at a microchip.

• Filter

- Adopting square plane filters, it is possible to collect even fine dust due to the wide filtration area.
- Various filter suitable for the dust characteristics can be adopted.
- It has the all-in-one structure that makes filter replacement simple.

• TURBO BLOWER



The absorptive power has been increased using the turbo fan of high air volume and high wind pressure self-produced by super-precision press mold, and non-vibration and low noise are realized.

• Digital Controller



▲ Auto Shaking



▲ Manual Shaking

- Operation / Stop at Panel, Remote mode, Link, RS485PC Communication.
- **Digital Differential Pressure Control** : Indication over differential pressure by pressure sensor.
- **Digital Current Indication** : Available to catch Overload, Disconnection, Unbalanced Current by CT. (Current Transformer)
- **Digital Control Panel** : Soft LED touch switch Panel, Remote mode, Link, RS485PC Communication operation available.

Option

Patent Applied 0295162



MSV series
(vacuum cleaner attached type)



MS-500H/FA(2)
(flexible arm equipped type)

Installation



Glass Process



Grinding Process



Acrylic, Pc Process



Grinding Process

STANDARD DIMENSION

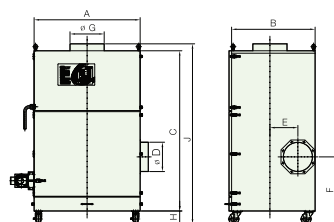


FIGURE 1

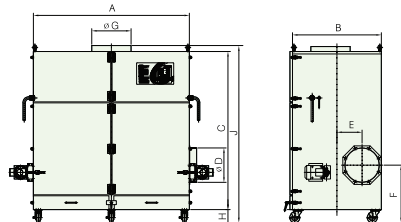


FIGURE 2



Grinding Process



Mixing Process

SPECIFICATION

TYPE		MS-50	MS-100	MS-200	MS-300	MS-500	MS-750	MS-1000	MS-1500
POWER		220V 1P, 220/380/415/440V 3P 50Hz, 60Hz (Option)				220/380/415/440V 3P 50Hz, 60Hz (Option)			
BLOWER	CMM (m³/min)	6	10	25	33	54	67	83	125
	CONSTANT PRESSURE(mmAq)	146	160	160	160	160	174	174	174
	MOTOR (KW)	0.55	0.75	1.5	2.2	3.7	5.5	3.7 x 2SET	5.5 x 2SET
FILTER	SIZE (WxL)	420 x 200	420 x 600		640 x 650				
	QUANTITY (EA)	8	7	14	15	20	30	40	50
	FILTRATION SIZE(m²)	1.34	3.52	7.05	12.48	16.64	24.96	33.28	41.6
	MATERIALS	POLYESTER - WOVEN FABRIC							
	SHAKING DUST OFF	MANUAL	MANUAL / MOTOR VIBRATION						
SIZE (mm)	A	450	520	620	770	770	1,080	1,580	1,950
	B	520	520	620	770	770	850	900	950
	C	755	1,260	1,370	1,532	1,577	1,630	1,600	1,700
	D(Ø)	100	150	200	250	250	300	350	400
	E	180	165	190	235	235	250	255	255
	F	348	759.5	759.5	882.5	882.5	682.5	582.5	608.5
	G(Ø)	125	150	200	300	300	350	400	450
	H	68	132	132	132	132	132	132	158.5
	J	883	1,452	1,563	1,724	1,769	1,832.5	1,792.5	1,918.5
	SHAKING MOTOR	-	0.2kw x 1SET				0.2kw x 2SET		
CAPACITY OF DUST BOX(ℓ)		9	16	30	65	65	100	130	130
APPROX. WEIGHT(kg)		50	100	120	180	185	385	715	785
FIGURE		FIGURE 1						FIGURE 2	

These specifications may be changed without notice in order to improve capability.

APD Series

It is Air Pulse Jet type Dust Explosion Safety Dust Collector.



Suction of Aluminum fume and fine dust /
Aluminum light alloy / Titanium / Cornstarch /
Epoxy resin / Milk powder / Starch / Magnesium /
Sulfur / Pulverized coal and so forth



APD-2000

• The Structure Minimizing the Cause of Dust Explosion

APD Series is Dust Explosion Safety Dust Collector that eliminates dust with the air pulse by adopting the antielectrostatic cartridge filter and separable solenoid enclosure, and prevents the occurrence of flame during operation of a dust collector with the explosion proof motor, enclosed external explosion proof electronics box and so forth.

• Detonation Blast Diffusion Hole

In the event that dust explodes in a dust collector, as the explosion power bursts the dust collector body and causes a large life accident, the explosion energy is induced and discharged through a blast diffusion hole at the upper rear of the dust collector to minimize the damage.

• Slide Gate

In case that a fire breaks out due to the penetration of external flame, a slide gate operates to prevent the spread of fire and protect the motor.

• Check Valve

In the event that a dust explosion occurs inside a dust collector, it prevents the flame to flow into a duct and protects an operator from the flame blast.



APD-300 / PCI 30 / PRE 40
(For removing titanium abrasion dust)

• Digital Controller



- Digital Control Panel : Soft LED touch switch in color LCD (Indication the digital differential pressure and digital current value, alarm, status).
- Digital Differential Pressure Control : Indication over differential pressure by pressure sensor.
- Digital Current Indication : Available to catch Overload, Disconnection, Unbalanced Current by CT. (Current Transformer)
- Operation / Stop at Panel, Remote mode, Link, RS485PC Communication.
- Pulsing : Manual, Semi-Auto, Auto, External Signal.
- User Convenience : Language (Korean, English), RS-485 PC Communication Support, Accumulated Operating Hours.

MSD Series



It is Bag Filter type Anti-Dust Safe Dust Collector.



Suction of Aluminum fume and fine dust / Milk powder / Aluminum light alloy / Starch / Titanium / Magnesium / Cornstarch / Sulfur / Epoxy resin / Pulverized coal and so forth



MSD-1000

• The Structure Minimizing the Cause of Dust Explosion

MSD Series is Dust Explosion Safety Dust Collector that eliminates dust with manual shaking by adopting the antielectrostatic square bag filter, and minimizes the occurrence of flame inside a dust collector with the explosion proof motor, enclosed external explosion proof electronics box and so forth.

• Vibration-proof Electronics Box

It is sealed by seal packing and so on to prevent the escape of flame.

• Check Valve

In the event that a dust explosion occurs inside a dust collector, it prevents the flame to flow into a duct and protects an operator from the flame blast.

• Detonation Blast Diffusion Hole

In the event that dust explodes in a dust collector, as the explosion power bursts the dust collector body and causes a large life accident, the explosion energy is induced and discharged through a blast diffusion hole at the upper rear of the dust collector to minimize the damage.

• Digital Controller



• Soft LED touch switch Panel, Remote mode, Link, RS485PC Communication operation available.

Calcium Carbonate Automatic Feeding Equipment (Optional)

Patent Applied 2013-0065966

- It is Automatic Calcium Carbonate Feeding Equipment that suppresses the occurrence of a fire and increases the efficiency of dust elimination.
- The installation location is not limited as the long distance input is available. (Comparing with our old model)
- It gives notice of the lack of calcium carbonate due to attaching a level gauge and a warning light.
- The operation interlocked with a dust collector is possible, and operator's convenience is increased by inputting the optimal supply depending on the set value.



STANDARD DIMENSION

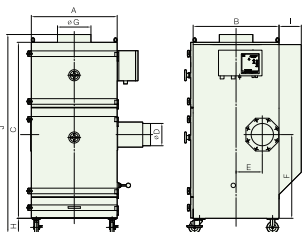


FIGURE 1

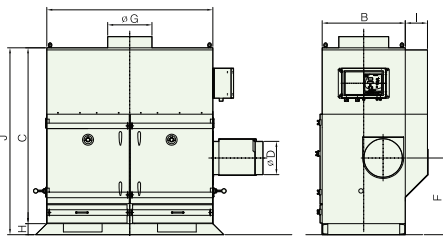


FIGURE 2

Installation



A light alloy grinding work



Fine dust grinding work



Aluminum grinding dust elimination



Aluminum grinding work



Epoxy resin disposal



Titanium grinding dust elimination

SPECIFICATION

TYPE		MSD-100	MSD-200	MSD-300	MSD-500	MSD-750	MSD-1000	MSD-1500
POWER		220V / 380V 3P AC 50Hz , 440V (Option), 60Hz (Option)						
BLOWER	CMM (m ³ /min)	10	25	33	54	67	83	125
	CONSTANT PRESSURE(mmAq)	160	160	160	160	174	174	174
	MOTOR (KW)	0.75	1.5	2.2	3.7	5.5	3.7 x 2SET	5.5 x 2SET
FILTER	SIZE (WxL)	Ø420 x 600L			Ø640 x 650L			
	QUANTITY (EA)	7	14	15	20	30	40	50
	FILTRATION SIZE(m ²)	3.528	7.05	12.48	16.64	24.96	33.28	41.6
	FILTRATION SPEED (m/min)	ANTI - STATIC - POLYESTER						
	SHAKING DUST OFF	MANUAL						
SIZE (mm)	A	520	620	750	750	1,200	1,500	1,900
	B	520	620	750	750	750	750	950
	C	1,260	1,380	1,530	1,577	1,747	1,587	1,670
	D(Ø)	150	200	250	250	300	350	400
	E	165	190	225	225	200	175	225
	F	760	760	883	883	883	725	610
	G(Ø)	150	200	300	300	350	400	450
	H	133	128	133	133	133	133	159
	I	150	150	200	200	200	200	187
	J	1,463	1,580	1,740	1,790	1,955	1,820	1,929
CAPACITY OF DUST BOX(ℓ)		16	23	65	65	100	130	130
APPROX. WEIGHT(kg)		115	150	190	220	380	430	480
FIGURE		FIGURE 1				FIGURE 2		

These specifications may be changed without notice in order to improve capability.

FC Series



It is Fume Eliminator that widely corresponds from Laser / Plasma Processing machine to general welding and cutting.



Laser processing machine /
Plasma processing machine /
Cast iron – Cast steel gouging works /
Works that generate fume such as welding,
metal cutting processing and so forth



FC-1000

• TURBO BLOWER



The absorptive power has been increased using the turbo fan of high air volume and high wind pressure which has been self-produced by super-precision press mold, and non-vibration and low noise are realized.

• Filter Cleaning



· 24 hour continuous operation is possible as it eliminates fume particles continuously by injecting compressed air into the cartridge filter due to the operation of an embedded timer.

PRE-DUSTER

Flame Sinking Device (Optional)

It is used for the works occurring flame at cutting, grinding and processing works, and the device makes it sink primarily in order not to be sucked to a filter.



• Digital controller



- Digital Control Panel : Soft LED touch switch in color LCD.
(Indication the digital differential pressure and digital current value, alarm, status)
- Digital Differential Pressure Control : Indication over differential pressure by pressure sensor.
- Digital Current Indication : Available to catch Overload, Disconnection, Unbalanced Current by CT.
(Current Transformer)
- Operation / Stop at Panel, Remote mode, Link, RS485PC Communication.
- Pulsing : Manual, Semi-Auto, Auto, External Signal.
- User Convenience : Language (Korean, English), RS-485 PC Communication Support, Accumulated Operating Hours.

Calcium Carbonate Automatic Feeding Equipment (Optional)

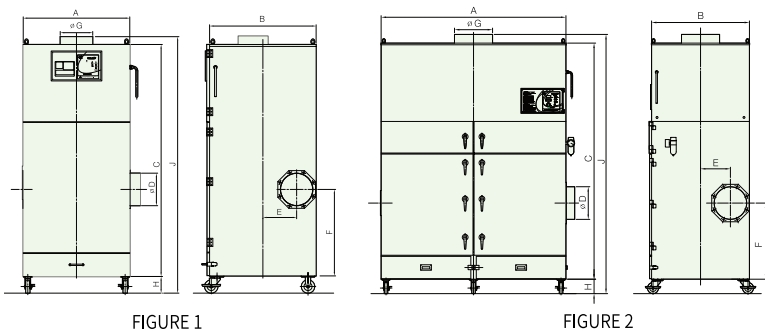
Patent Applied 2013-0065966

Calcium Carbonate Automatic Feeding Equipment (Optional)

- It is Automatic Calcium Carbonate Feeding Equipment that suppresses the occurrence of a fire and increases the efficiency of dust elimination.
- The installation location is not limited as the long distance input is available. (Comparing with our old model)
- It gives notice of the lack of calcium carbonate due to attaching a level gauge and a warning light.
- can be operated with the dust collector, depending on settings, to optimize supply, and to increase worker's convenience.



STANDARD DIMENSION



Installation



SPECIFICATION

TYPE		FC-100	FC-200	FC-300	FC-500	FC-750	FC-1000	FC-1500
POWER		220V 1P, 220/380/415/440V 3P 50Hz, 60Hz (Option)			220/380/415/440V 3P 50Hz, 60Hz (Option)			
BLOWER	CMM (m³/min)	10	25	33	54	67	83	125
	CONSTANT PRESSURE(mmAq)	160	160	160	160	174	174	174
	MOTOR (KW)	0.75	1.5		3.7	5.5	3.7×2SET	5.5 x 2SET
FILTER	SIZE (WxL)	Ø165 x 800L					Ø165 x 1000L	
	QUANTITY (EA)	6	9	12	18	24	24	32
	FILTRATION SIZE(m²)	25	38	50	76	101	126	168
	FILTRATION SPEED (m/min)	0.4	0.7	0.6	0.6	0.6	0.7	0.8
	MATERIALS	POLYESTER						
	SHAKING DUST OFF	TYPE OF AUTO AIR PULSE						
NUMBER OF SOLENOID VALVES		3	3	4	6	8	8	9
VOLUME OF AIR CONSUMPTION (Nℓ/min)		20	20	35	40	60	60	70
SIZE (mm)	A	620	750	850	1,340	1,700	1,950	1,100
	B	620	750	750	870	900	1,000	2,285
	C	1,880	1,935	1,975	2,020	2,170	2,250	2,325
	D(Ø)	150	200	250	250	300	350	400
	E	190	240	225	285	275	305	350
	F	880	600	800	835	700	910	870
	G(Ø)	200	200	250	300	350	400	450
	H	133	133	133	133	133	154	160
CAPACITY OF DUST BOX(ℓ)		45	77	91	104	196	170	170
APPROX. WEIGHT(kg)		210	280	350	460	510	850	1,150
FIGURE		FIGURE 1			FIGURE 2			

These specifications may be changed without notice in order to improve capability.

HD Series



Dust treatment and filter replacement are easy due to LFC lift detachable system.



Laser processing machine /
Plasma processing machine /
Cast iron – Cast steel gouging works /
Works that generate fume such as welding,
metal cutting processing and so forth



HD-500FC

◦ Dust Treatment

- Combining slide-gate and bucket, dust remove available without turn-off the collector.
- Improved productivity by slide-gate and bucket type dust remove system.

◦ Digital Controller



- Digital Control Panel : Soft LED touch switch in color LCD.
(Indication the digital differential pressure and digital current value, alarm, status)
- Digital Differential Pressure Control : Indication over differential pressure by pressure sensor.
- Digital Current Indication : Available to catch Overload, Disconnection, Unbalanced Current by CT.
(Current Transformer)
- Operation / Stop at Panel, Remote mode, Link, RS485PC Communication.
- Pulsing : Manual, Semi-Auto, Auto, External Signal.
- User Convenience : Language (Korean, English), RS-485 PC Communication Support, Accumulated Operating Hours.

◦ Down Flow Method

Due to the structure that the sucked dust naturally falls by the downward air current, the life span of filters has been extended as the filter burning damage is less.

◦ TURBO BLOWER



The absorptive power has been increased using the turbo fan of high air volume and high wind pressure which has been self-produced by super-precision press mold, and non-vibration and low noise are realized.

◦ Filter Replacement of Simple Change Type

- Forward and Backward of Push/Pull Clamp makes separate the filter and filter cover.
 - Easy and shorter to replace filters.
- Die to the structure which filters separate by only removing each one knob attached to the filter, anyone can easily replace the filters reducing the filter replacement time comparing with the existing method.

• Adopting PTFE Membrane Filter

- As the operation is available with less impact or low pressure, the life span of filters are increased, since the pressure loss is low and maintains constantly and dusting is easy.
- Dust on the surface of the filter bag can be easily separated as the dusting property and perfect surface filtration function of the filter itself increases and show effectiveness.
- As it collects dust nearly perfectly from the initial stage of the operation, the recovery rate of dust of the high value is high as well as non-dust discharge of harmful substances.



PTFE Membrane Filtration Structure

• Installation



Metal Cutting Processing



Laser Processing



Stainless Steel Plate



Cast Steel Gouging Work



Pipe Laser Cutting

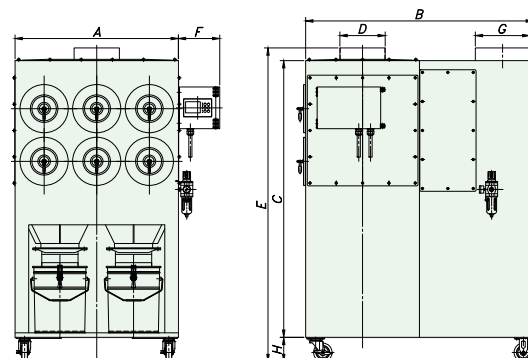


Pipe Cutting

• Comparison of Dust Collection Efficiency (at 0.3μm)

	PTFE membrane filter	NANO filter
Efficiency at 0.3μm (%)	99.874	26.8
Penetration at 0.3μm (%)	0.126	24.8
Resistance (mmH ₂ O)	26.094	6.3

• STANDARD DIMENSION



HD-SERIES

SPECIFICATION

TYPE		HD-200	HD-300	HD-500	HD-500FC	HD-750	HD-1000
POWER		220V / 380V 3P AC 50Hz, 440V(Optional) 60Hz (Option)					
BLOWER	CMM (m ³ /min)	25	33	54	54	67	83
	CONSTANT PRESSURE(mmAq)	160	160	160	160	174	174
	MOTOR (KW)	1.5	2.2	3.7	3.7	5.5	3.7 x 2SET
FILTER	SIZE (W x L)	Ø230 x 125 x 40DP x 610L					
	QUANTITY (EA)	2	3	4	6	6	8
	FILTRATION SIZE(m ²)	12.2	18.3	24.4	36.6	36.6	48.8
	FILTRATION SPEED (m/min)	2.46	2.18	2.66	1.77	2.18	2.05
	MATERIALS	MEMBRANE FILTER					
	SHAKING DUST OFF	TYPE OF AUTO AIR PULSE					
NUMBER OF SOLENOID VALVES		2	3	4	6	6	8
VOLUME OF AIR CONSUMPTION (Nℓ/min)		20	35	40	50	50	60
SIZE (mm)	A	650	790	790	900	900	900
	B	1,175	1,220	1,255	1,255	1,325	1,465
	C	1,185	1,525	1,525	1,525	1,525	1,815
	D(Ø)	200	250	250	250	300	350
	E	1,389	1,729	1,729	1,729	1,729	2,019
	F	228	228	228	228	228	228
	G(Ø)	250	300	300	300	350	400
	H	134	134	134	134	134	134
CAPACITY OF DUST BOX(ℓ)		20	20	20	20 x 2 = 40	20 x 2 = 40	20 x 2 = 40
APPROX. WEIGHT(kg)		310	311	312	313	314	315

These specifications may be changed without notice in order to improve capability.

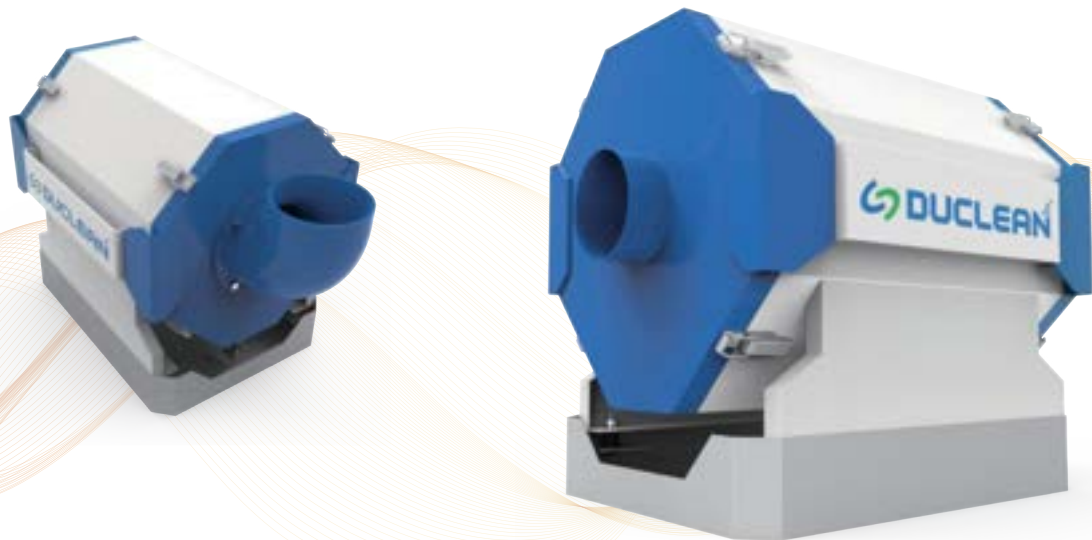
DMC Series



Space Saving Small Mist Collector



Machining Center / Lathe / Milling / Tapping Machine / Machine Tools



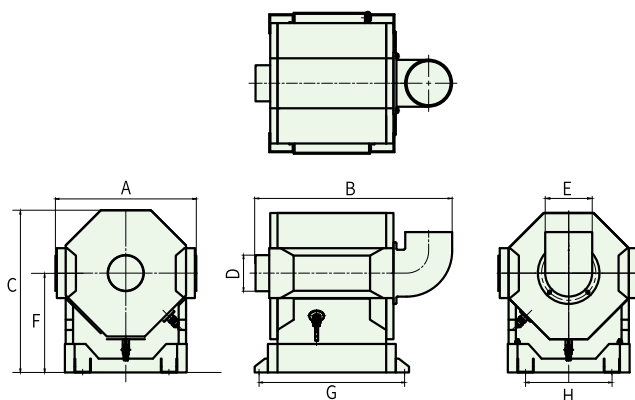
• Compact Structure

- Possible to install in a small workplace or top of the machine tool.
- Easy Maintenance

• Maximum Efficiency

- Up to 99.7% efficiency with special filters
- Easy Filter Replacement available without tools
- AFTER FILTER (Option)

• STANDARD DIMENSION



• Installation



SPECIFICATION

TYPE		DMC-50	DMC-100	DMC-150	DMC-200
POWER		220 / 380V, 3P, 60Hz			
BLOWER	CMM (m³/min)	7	12	15	20
	CONSTANT PRESSURE (mmHg)	150	150	150	150
	MOTOR (KW)	0.4	0.75	1.1	1.1
SIZE (mm)	A	480	480	480	480
	B	670	670	780	780
	C	543	543	543	543
	D(Ø)	123	123	148	148
	E	160	160	160	160
	F	338	338	338	338
	G(Ø)	496	496	596	596
	H	294	294	294	294
APPROX. WEIGHT (kg)		40	45	58	60

These specifications may be changed without notice in order to improve capability.

WD Series

Water saved type scrubber with no pump needed



Sticky Dust / Hygroscopic Dust / Explosive Dust / Fire Hazard Dust
Water-soluble Gas

• No pump needed wet scrubber

- Strong Vortical Flow without Pumps in Special Structure.

• Maximum Collecting Efficiency

- Washing Dirty Gas with strong whirlpool and Collecting Polluted Material to Sludge Bin
- Washed Air moves up and Evacuate after removing Mist

• Easy and efficient Control

- Both Inlet usable from Special Structure
- Easy Maintenance with Wide Sight Glass

• FILTER / OPTION

- Auto Water Supply System
(Response to Evaporation 2cc/m³ in Ambient Temperature)
- Hot Wire to prevent frozen to burst (Option)
- Hopper Type Available (Option)

• Digital Controller



Differentiated Control Panel

- Digital Control Panel : Soft LED touch switch Type
- External Operation (Remote Mode, Link) :
Terminal Block and One Touch Set-up

- Operation Status of real time current and voltage
- Error Indication (Short Voltage, Over current)

• TURBO BLOWER

The absorptive power has been increased using the turbo fan of high air volume and high wind pressure self-produced by super-precision press mold, and non-vibration and low noise are realized.

• STANDARD DIMENSION

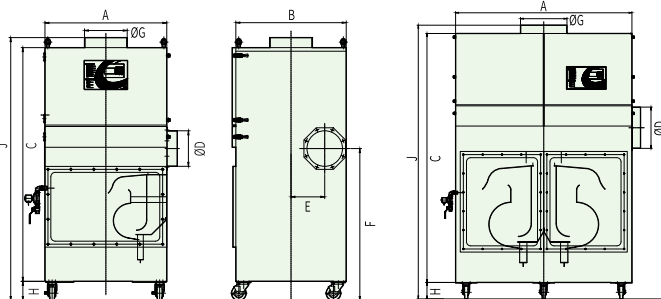


FIGURE 1

FIGURE 2



SPECIFICATION

TYPE		WD-300	WD-500	WD-750	WD-1000	WD-1500
POWER		220V / 380V 3P 60Hz, 440V(Optional), 50Hz(Optional)				
BLOWER	CMM (m ³ /min)	40	65	80	100	150
	CONSTANT PRESSURE(mmHg)	230	230	250	250	250
	MOTOR(Kw)	2.2	3.7	5.5	3.7x2SET	5.5x2SET
CAPACITY OF WATER(L)		280	280	390	910	1,000
SIZE (mm)	A	850	850	910	1,720	1,700
	B	770	770	830	900	950
	C	1,630	1,630	1,945	1,900	2,150
	D(Ø)	250	250	300	350	400
	E	235	235	240	225	258
	F	1,060	1,060	1,220	1,310	1,650
	G(Ø)	300	300	350	400	450
	H	134	134	134	134	149
	J	1,759	1,809	2,172	2,244	2,189
APPROX.WEIGHT(kg)		300	300	450	800	900
FIGURE		FIGURE 1			FIGURE 2	

These specifications may be changed without notice in order to improve capability.

OMC Series



Centralized Collector Suitable for Oil Mist Works.



Machining center / Automatic lathe /
Milling processing / Homing machine /
Tapping machine / Electric discharge machine /
Spray painting works /
Parting agent application works



OMC-BX

• Structure

- Adopting the slide filter system, anyone can easily replace it.
- It is possible to collect fine dust larger than 0.3um up to 99.997% due to the installation of the hepa filter. (Medium Filter 95%)
- Deodorization function can be added. (Optional)

• Centralized Management System

- In case that mist generating machines are multiple, the management and maintenance are convenient as the centralized collection is possible.
- As the continuous operation is possible, the optimized operation is available depending on the work environment.

• Down Flow Method

As the structure is that sucked mist naturally falls by down flow, the mist coheres in the filter and it drains after collecting at the bottom of the filter, continuous operation is available without secondary scattering.
(Patent No. 10-1289556)

• Digital Control Panel

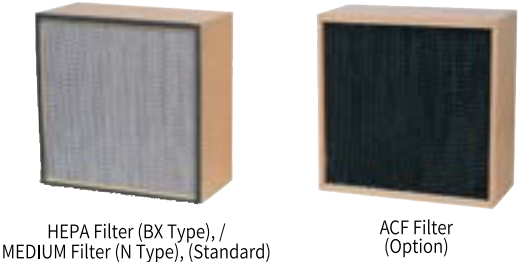


- Soft LED touch switch Panel, Remote mode, Link, RS485PC Communication operation available.
- It is possible to control accurate ON/OFF of a fan due to the soft touch type electronic panel.
- Excellent dustproof and waterproof performances.
- At the operation in conjunction with the other equipment and the long distance motion switch operation, easy installation and operation are possible as the terminal and selection switch are basically mounted.
- Easy operation selection and motion check by LED lighting.

Activated carbon fiber filter is an activator that consists of a high molecular compound. It has a high absorption ratio and strength, and doesn't make secondary pollution because it doesn't easily weather. It is highly acid resistant and alkali tolerant, and lasts a long time.

Odor elimination functions (optional)

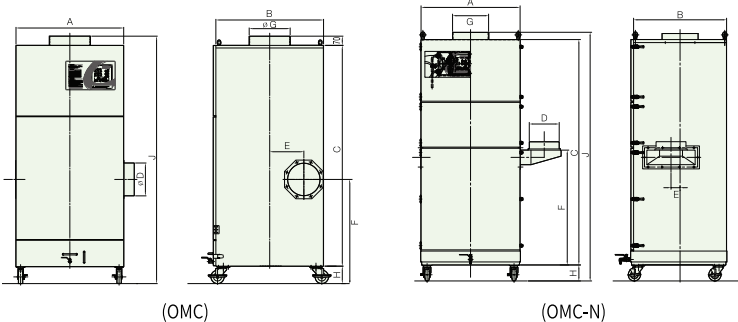
Activated carbon fiber filter is an activator that consists of a high molecular compound. It has a high absorption ratio and strength, and doesn't make secondary pollution because it doesn't easily weather. It is highly acid resistant and alkali tolerant, and lasts a long time.



HEPA Filter (BX Type), /
MEDIUM Filter (N Type), (Standard)

ACF Filter
(Option)

STANDARD DIMENSION



Installation



CNC



MIXING Process



Lathe Work



Cylinder Grinding



Parts Process



Automation Parts Process

SPECIFICATION

TYPE		OMC-100	OMC-100N	OMC-200	OMC-200N	OMC-300	OMC-300N	OMC-500	OMC-500N	OMC-750	OMC-750N	OMC-1000	OMC-1000N	OMC-1500	OMC-1500N
POWER		220V 1P, 220/380/415/440V 3P 50Hz, 60Hz (Option)					220/380/415/440V 3P 50Hz, 60Hz (Option)								
BLOWER	CMM (m³/min)	10	10	25	25	33	33	54	54	67	67	83	83	125	125
	CONSTANT PRESSURE(mmAq)	160	160	160	160	160	160	160	160	174	174	174	174	174	174
	MOTOR (KW)	0.75	0.75	1.5	1.5	2.2	2.2	3.7	3.7	5.5	5.5	3.7x2SET	3.7x2SET	5.5x2SET	5.5x2SET
FILTER	1st PRE FILTER (DEMISTER FILTER)	610x610x50	610x610x20	610x610x50	610x610x20	610x760x50	610x760x20	610x760x50	610x760x20	610x610x50x2	610x760x20	610x760x50x2	610x760x20x2	610x760x50x2	610x760x20x2
	2nd VEEBAG FILTER	610x610x 300x10P	610x610x 300x10P	610x610x 560x10P	610x610x 560x10P	610x760x 560x12P	610x760x 560x12P	610x760x 560x12P	610x760x 560x12P	610x610x 560x10Px2	610x760x 560x15P	610x760x 560x12Px2	610x760x 560x12Px2	610x760x 560x15Px2	610x760x 560x15Px2
	3rd H.E.P.A FILTER (MEDIUM FILTER)	610x610x75	610x610x75	610x610x150	610x610x150	610x760x150	610x760x150	610x760x292	610x760x292	610x610x292x2	610x760x292	610x760x292x2	610x760x292x2	610x760x292x2	610x760x292x2
SIZE (mm)	A	670	670	670	670	820	820	820	820	1,344	950	1,650	1,500	1,650	1,500
	B	710	692	670	692	840	792	820	792	900	822	950	946	1,000	1,026
	C	1,130	1,150	1,515	1,565	1,680	1,695	1,860	1,865	2,110	1,945	2,050	1,885	2,150	2,080
	D(Ø)	150	150	200	200	250	250	250	250	300	300	350	350	400	400
	E	260	25	215	25	260	75	260	75	275	65	275	75	275	85
	F	570	743	295	1,003	660	1,083	660	1,083	695	1,093	828	1,105	725	1,230
	G(Ø)	150	200	200	250	300	300	300	300	350	350	400	400	450	450
	H	133	133	133	133	133	133	133	133	133	133	133	133	133	133
	J	1,333	1,343	1,838	1,758	1,883	1,888	2,065	2,058	2,323	2,138	2,183	2,078	2,363	2,273
APPROX.WEIGHT(kg)		120	120	165	165	280	280	305	305	680	355	710	585	760	785

These specifications may be changed without notice in order to improve capability.

CHB Series

The structure emphasizing
strong suction power
– convenient moving
– convenience for operators.



Works that generates fume such as Arc welding /
CO2 welding / MAG Welding / Fusing works /
Special welding



CHB-300

• ARM

Adopting the flexible arm that freely moves and is fixed, operators' health is protected and the work efficiency is improved by the direct suction and elimination at fume generating source. (Φ150 X 2m/3m).

• Strong Suction Power

- A turbo blower dedicated to fume is installed.
- High safety due to adopting the overload preventing circuit to prevent burning of a motor.

• Quiet Operation

Noise is minimized as the airflow of the blower is induced and dispersed constantly to the outlet direction of a grid.

• Mobility

Simple and easy mobility as the large casters and handles for moving.

• OPTION

- The installation of Dual Arms and Stand type are available depending on the work conditions.
- It is available to select the strong odor elimination function by the activated coal fiber filter.

• Outlet

As the direction of the outlet is induced upward and dust scattering at the floor of workplace is prevented, there is no secondary pollution.

• Installation



MAG Welding



ARC Welding



CO₂ Welding

• Main Functions

I. FILTER



1st DEMISTER

- PANEL TYPE PRE FILTER filtrates inbound flame and thick particles with FUME GAS in welding.
- Economical washable & reusable filter consisting of stainless filter media.



2nd H.E.P.A

*MEDIA TYPE FILTER uses highly pure filter media on the surface. It can perfectly collect harmful minute particles. The layers are thick and its tensile strength of MEDIA is so high that it can prevent * over 99.74% of 0.3mm particles (according to HOT DOP TEST). Its filtering layers are thick and its tensile strength of MEDIA is so high that it can prevent decreased dust collection functionality. (Issued Testing Results of Filter for Fume Collector from FITI TESTING & RESEARCH INSTITUTE)



3rd ACF (Optional)

- Odor elimination available.
- Activated carbon fiber filter is an activator that consists of a poly-crystal structured high molecular compound. It has highly efficient absorption and strength, and doesn't make secondary pollution because it hardly weathers. It is highly acid resistant and alkali-tolerant, and lasts a long time.

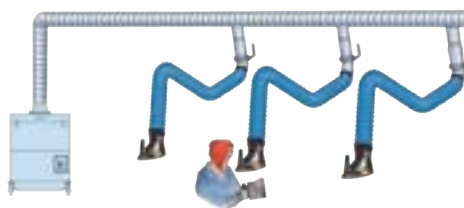
II. DUST COLLECTION METHOD



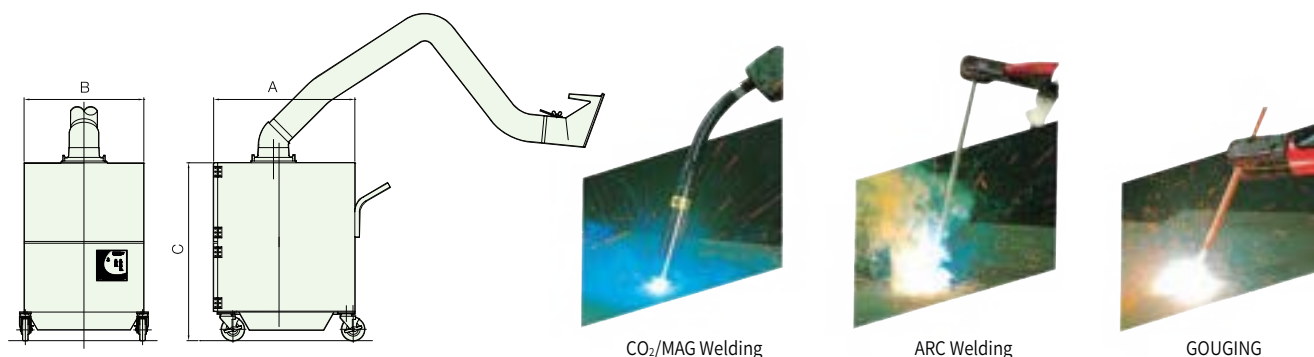
Collected Welding Fume

Fume is collected between the pleated filter media and to clean the filter, blow them or shake upside.

III. APPLICATION OF FUME COLLECTOR (OPTIONAL)



• STANDARD DIMENSION



SPECIFICATION

TYPE		CHB-200	CHB-300	CHB-500
POWER		220/380/415/440V 1P 50Hz (60Hz)	220/380/415/440V 3P 50Hz, 60Hz (Option)	
BLOWER	CMM (m³/min)	29	33	57
	CONSTANT PRESSURE(mmAq)	160	160	160
	MOTOR (KW)	1.5	2.2	3.7
FILTER	1st DEMISTER	610 x 610 x 20T	610 x 610 x 20T	610 x 610 x 20T
	2nd HEPA FILTER	610 x 610 x 292T	610 x 610 x 292T	610 x 610 x 292T(SC)
	FILTRATION EFFICIENCY	99.74%		
	FILTRATION SIZE	19.3m²		
	SHAPE	MEDIA TYPE CARTRIDGE		
SIZE (mm)	A	790	790	840
	B	670	670	670
	C	995	995	1,045
FLEXIBLE ARM	LENGTH/QUANTITY	2m x 1SET	3m x1SET	3m x 2SET
	DIAMETER	Ø150mm		
APPROX.WEIGHT(FILTER,ARM,kg)		160kg	160kg	185kg

These specifications may be changed without notice in order to improve capability.

MSR Series



High Wind Pressure Vacuum Dust Collector that can be used for a long time.

Router Machine dust collection /
Shot blasting works / Mold processing works /
Continuous operation type cleaner /
Board processing works /
Press scrap collector



MSR-429

◦ RING BLOWER

- Equipped with the high performance ring blower, suction power has been increased and dust and chips adhered to the contact surface can be collected with the strong suction power.
- Adopting the self-cooling system, continuous operation is possible without heating.

◦ Built-in Silencer

As the built-in silencer is mounted, quiet operation is possible in a workplace.

◦ Compact Structure

It is possible to install it in a small workplace or at the bottom of a table to operate as the structure of the dust collector is minimized.

◦ Digital Controller



- It is possible to control accurate ON/OFF of a fan due to the soft touch type electronic panel.
- Dustproof and waterproof performances are excellent.
- At the operation in conjunction with the other equipment and the long distance motion switch operation, easy installation and operation are possible as the terminal and selection switch are basically mounted.
- Easy operation selection and motion check by LED lighting.



※ Auxiliary Collection Box

※ Hood for Scrap Collection (Optional)

Silencer Mounted MSR-429

High Efficiency Ring Blower

FTB-429CT (Special Order Made Type)

OPTIONS

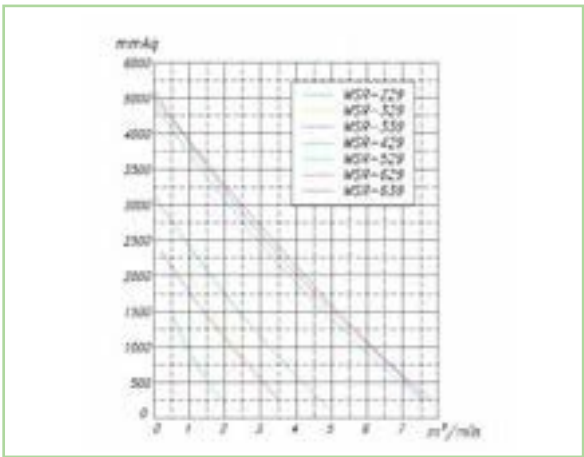


1. Pressure control valve (relief valve)
: use within control pressure range

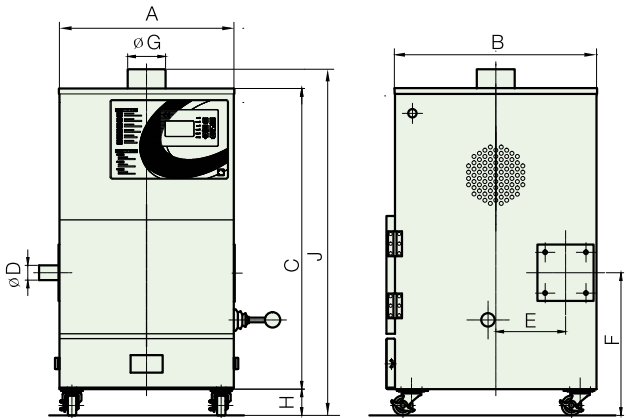


2. No load conversion valve
: use when no load operation needed

PERFORMANCE CURVE



STANDARD DIMENSION



Installation



Dashboard process



Laser drill



Semi conductor packaging



Cyclone unity type



Auto parts



Press mold

SPECIFICATION

TYPE		MSR-229	MSR-329	MSR-339	MSR-429	MSR-529	MSR-629	MSR-639
POWER		220/380/415/440V 1P/3P 50Hz, 60Hz (Option)				220/380/415/440V 3P 50Hz, 60Hz (Option)		
BLOWER	CMM (m³/min)	1.4	2.4	3.1	3.6	3.6	5.2	5.2
	CONSTANT PRESSURE(mmAq)	1300	1400	1300	2200	2700	2800	3250
	MOTOR (KW)	0.5	0.85	1.5	1.9	2.6	3.7	4.6
FILTER	SIZE (W x L)	420 x 100L	420 x 200L					
	QUANTITY (EA)	8						
	FILTRATION SIZE(m²)	0.65	1.3	1.3	1.3	1.3	1.3	1.3
	MATERIALS	POLYESTER						
	SHAKING DUST OFF	HAND SHAKING						
SIZE (mm)	A	450	450	450	450	520	520	520
	B	520	520	520	520	520	520	520
	C	575	775	775	815	855	855	855
	D(Ø)	38	38	43	43	63	63	63
	E	195	180	180	180	180	180	180
	F	180	300	300	300	300	300	300
	G(Ø)	98	98	98	98	98	98	98
	H	68	68	68	68	68	68	68
	J	643	893	893	933	973	973	973
CAPACITY OF DUST BOX(ℓ)		8	13	13	13	15	15	15
APPROX. WEIGHT(kg)		55	60	60	70	89	89	89

These specifications may be changed without notice in order to improve capability.

SC Series



Space saving ultra small dust collector.



Electronic parts / PCB processing / Precious metal /
Key processing / Dental instrument / Cutting /
Grinding / Punching



SCN-50M

Rectangular Cartridge
Filter(insert injection)



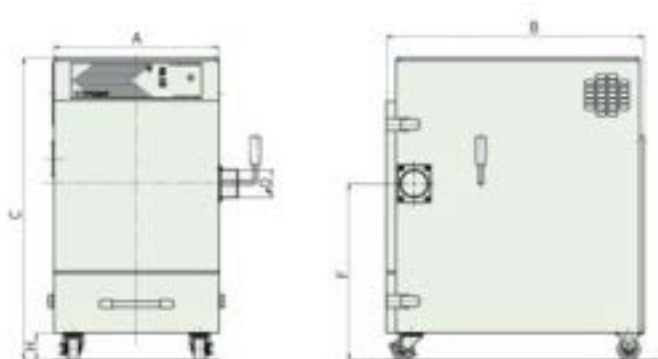
• FEATURE

- Excellent space-saving design, can store it under the work table.
- Anybody can replace the filter easily since the filter is a replaceable rectangular cartridge type.
- Suitable for small amounts of dust and demanding work for high pressure suction.
- Excellent in dusty environments & water proof. Equipped with soft touch type electric panel.
- Suitable for indoor work, since it makes little noise and is an ultra small size dust collector.

• Type of dust removal

- Automatic (M type):silent and powerful automatic vibration built-in timer, when you push the start button, it will remove dust quickly and efficiently.

• STANDARD DIMENSION



• Installation



process work



drilling



grinding

SPECIFICATION

TYPE		SC-50VH	SCN-50M
POWER		220V 1P, 220/380V 3P 50Hz, 60Hz(Optional)	
BLOWER	CMM(m ³ /min)	3	3
	CONSTANT PRESSURE(mmAq)	240	240
	MOTOR(Kw)	0.6	0.6
FILTER	SIZE(WxL)	370 × 335 × 87T	
	FILTRATION(m ²)	1.55	1.55
	MATERIALS	POLYESTER	
	SHAPE	MEDIA TYPE CARTRIDGE	
	QUANTITY(EA)	1	1
SIZE (mm)	A	380	380
	B	592	516
	C	695	657
	D (Ø)	65	65
	F	462	590
CAPACITY OF DUST BOX(ℓ)		6.5	4.3
APPROX.WEIGHT(kg)		50	50

These specifications may be changed without notice in order to improve capability.

ZF Series

Duct connected, low noise, high efficiency collector.



- Elimination of lead smoke and fume in soldering electric and electronic parts.
- Elimination of fumes in laser marking and cutting.
- Elimination of chemical smells in schools, research institutes, and labs.
- Elimination of dust in grinding and carving Pharmacy.

Utility Model Registration No. 0259803

Registration of Design 0259904

Registration of Design 0304592

• FEATURE

- Perfect absorption of particles and fumes because of the combination of activated carbon fiber filter and granular activated carbon.
- Extension of expected life of activated carbon filter in adoption of triple filter, perfectly collecting 99.997% of minute particles over 0.3 .
- Can set the device on a table because of its beautiful shape and compact size.
- Silent operation available as perfect antinoise measure.



laser marking



ZF-500



ZF-100

Freely Moving to be Fixed Flexible Hose

SPECIFICATION

TYPE		ZF-100	ZF-300	ZF-500
POWER		220V 1P AC 60Hz		
BLOWER	CMM (m ³ /min)	2.5	4	8
	CONSTANT PRESSURE(mmHg)	26	40	68
	MOTOR (W)	60	220	500
1st FILTER		PRE FILTER (305 x 305 x 20)		
2nd FILTER		H.E.P.A FILTER (305 x 305 x 75)		
3rd FILTER		GRANULAR ACTIVATED CARBON		
SIZE (mm)	A	370	460	525
	B	322	322	322
	C	316	316	361
	D(Ø)	65	65	65
MULTI REFRACTIVE HOSE		Ø 65×800L×1	Ø 65×1000L×1	Ø 65×1000L×2
APPROX. WEIGHT (kg)		10	12	20
SOUND LEVEL DB(A)		35±2	48±2	55±2
FIGURE		FIGURE 1		

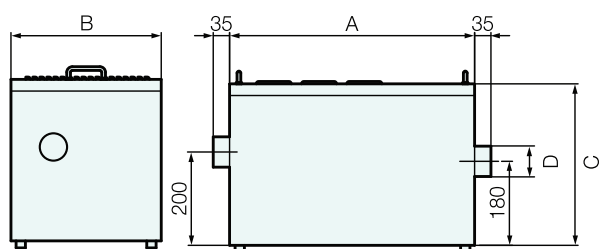


FIGURE 1

These specifications may be changed without notice in order to improve capability.

ACT Series



Using a large amount of activated carbon, the ACT series purifies toxic air in the workplace.



- Absorbs VOC (volatile organic compounds), NOX and SOX / absorbs H₂S, SO₂, CH₃SH, NO₃, and odor from livestock pollution.
- Chemical factory, paint/powder factory, printing material, plastic, ejection process, aging process, food industry, leather.
- Factory, type of absorption material : activated carbon, activated alumina.

OUTLINE

The activated carbon tower is equipment that absorbs & eliminates toxic gases and odors using its strong absorbing power from atom free combination and chemical gas combination.

FEATURE

- Easy operation and low maintenance cost by reusing activated carbon.
- Activated carbon used as adsorbent is very effective to adsorb organic vapor.
- Widely absorbs all kinds of solvents which have low boiling points.
- In case that the adsorption capacity decreases after starting operation, the reproduction operation of the activated carbon is simple.
- Compact installation space compared to processing volume.
(retention time to absorb : 0.1~0.6 sec)
- Excellent collection rate (98%) of organic gases.

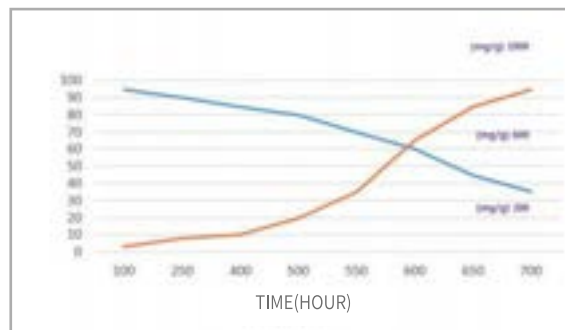
What is Activated Carbon?

Activated Carbon is the product obtained by the activation of a high degree with the raw materials containing carbon (carbides such as wood, coconut shell, lignite, bituminous coal and so forth), the collectivity of nonpolar carbon with the structure of well developed micropores with the wide internal surface area connected by innumerable microvoid paths, and is a nonpolar adsorbent and a product of the chemically excellent stability. It is widely used in various industrial and environmental fields for the purposes of decoloration, deodorization, purification, recovery, separation, collection and so on.



importance of iodine value (number)

- It is perceived that the toluene concentration increases and the iodine adsorptive power decreases by time passes on the breakthrough curve
- In order to raise the absorption, it is recommended to use high value iodine activated carbon



[BREAKTHROUGH CURVE]



ACT-500

Installation



Paint work



Elimination of noxious gases of laser cutting



Elimination of VOC and bad odor



Special coating

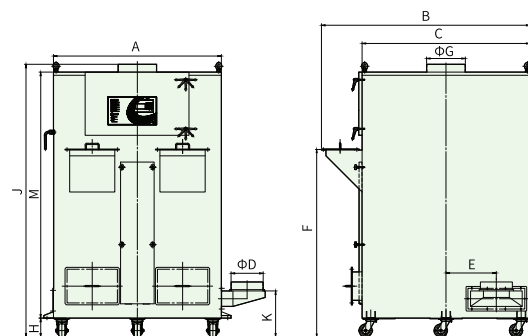


Elimination of chemical odor



VOC

STANDARD DIMENSION



Types of activated carbon and selection process

- There are various types of activated carbon such as granular activated carbon, powdered activated carbon impregnated activated carbon, pelletized activated carbon, etc. the activated carbon should be selected properly to satisfy the gases and properties of the work site.
- Adopt over 1000mg/g iodine value of activated carbon. (replacement time for activated carbon : iodine value 600 to 800mg/g)
- Make gas stay at least 1 second and design passing velocity of activated carbon in ACT below 0.5m/sec.



Pelletized activated carbon



Granular activated carbon



Powdered activated carbon

- Pelletized activated carbon that is produced by high pressure pressing has low pressure loss and high iodine value use in high concentration gas such as painting, dry facility, solvent recovering facility, etc.
- Granular activated carbon which has a comparatively large surface is used commonly in most industrial fields activated carbon can be recycled through a retexturing process.
- Powdered activated carbon is used mainly for bleaching, deodorization of liquefied material, eliminating impurities and bad taste. It's also suitable for water treatment.
- Impregnated activated carbon is a new type of activated carbon which makes catalysis, physical absorption and chemical reaction through impregnating materials that activate catalysis and chemical reaction in micro pores of general activated carbon.

SPECIFICATION

TYPE		ACT-100	ACT-200	ACT-300	ACT-500	ACT-750	ACT-1000
POWER		220/380/415/440V 3P 50Hz, 60Hz (Option)					
BLOWER	CMM (m³/min)	10	21	33	50	67	83
	CONSTANT PRESSURE(mmAq)	160				174	
	MOTOR (KW)	0.75	1.5	2.2	3.7	5.5	7.5
absorbent material		pelletized activated carbon					
volume (Kg)		150	240	450	650	850	1,000
SIZE (mm)	A	1,200	1,240	1,350	1,350	1,600	1,700
	B	1,150	1,215	1,615	1,615	1,815	1,815
	C	800	900	1,300	1,300	1,526	1,500
	D(Ø)	150	200	250	250	300	350
	E	210	210	265	265	370	310
	F	994	1,218	1,506	1,886	1,748	1,973
	G(Ø)	200	250	300	300	350	400
	H	142	133	143	143	143	143
	J	1,554	1,768	2,165	2,545	2,507	2,742
	K	347	322	335	335	416	435
	M	1,483	1,575	1,942	2,342	2,295	2,520
APPROX. WEIGHT(kg)		380	550	900	1,150	1,550	1,650

These specifications may be changed without notice in order to improve capability.

LC Series

For small amounts of VOC (volatile organic compounds), fumes, and can eliminate odors using activated carbon.



- Laser cutting / Marking / Soldering
- Lab of chemistry and medicine
- Research institute
- Assembly line of electric and electronic parts



• Installation



Acrylic and plastic laser cutting



Removing odors from rubber fusion



Laser cutting



Laboratory odor removal



Laboratory chemicals

• FEATURE

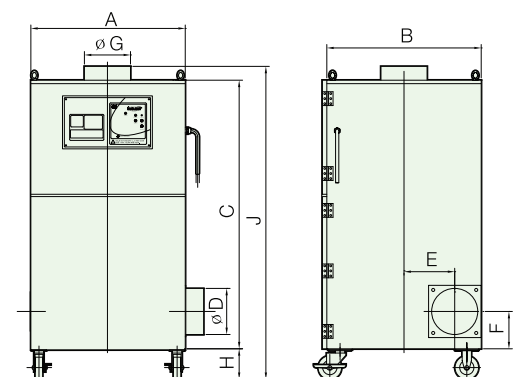
- Compact size is optimally designed and suitable for small spaces the slide type makes it easy to change the filter.
- Long lasting and very efficient because of the combination of activated carbon fiber filter and granular activated carbon.
- Extension of expected life of carbon filter is because of the triple filter structure, which collects minute dust.
- Excellent in dusty environments & is waterproof. Equipped with soft touch type electric panel.

SPECIFICATION

TYPE		LC-50	LC-100	LC-200
POWER		220V 1P, 220/380/415/440V 3P 50Hz, (60Hz)		
BLOWER	CMM (m ³ /min)	6	10	25
	CONSTANT PRESSURE(mmHg)	146	160	160
	MOTOR (KW)	0.4	0.75	1.5
	1st PRE FILTER	400x500x20	610x610x20	610x610x20
2nd FILTER		400x500x50H	610x610x75HEPA	610x610x150HEPA
3rd CARBON FILTER		400x500x50Hx2	610x610x50Hx2	610x610x50Hx4
SIZE (mm)	A	450	670	670
	B	500	670	670
	C	705	885	1,170
	D (Ø)	100	150	200
	E	0	220	220
	F	163	295	295
	G (Ø)	100	200	200
	H	68	128	128
	J	773	1,013	1,298
APPROX. WEIGHT(kg)		60	105	180

These specifications may be changed without notice in order to improve capability.

• STANDARD DIMENSION



GRINDER ATTACHED DUST COLLECTOR

NGC Series

All-in-one grinder & dust collector prevents dust from scattering.



Grinding dental tools / Processing buffing /
Other grinding

Patent Applied NGC-400(13-AV1FG-0062)

Patent Applied NGC-510 (13-AV1FG-0061)

Patent Applied NGC-800 (13-AV1FG-0060)



NGC-510



국기등록인증마크



Registration of Design (0407056)

FEATURE

SILENCER BUILT IN

Built-in silencer makes low noise.

Large size vibration-proof rubber attached

The vibration-proof rubber absorbs the vibration of the grinder and enables silent operation.

All-in-one grinder and dust collector

All-in-one grinder and dust collector can easily collect dust.

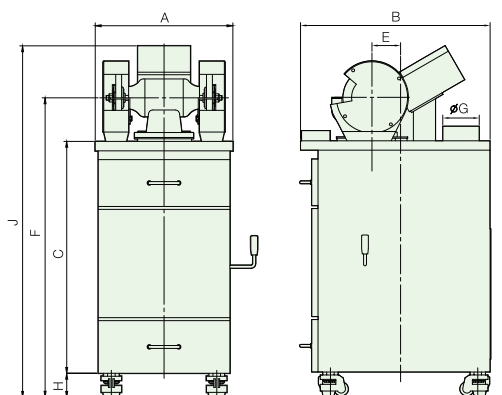
SIMPLE DESIGN

Simple design gives the collector a beautiful shape.

PRE DUSTER BUILT-IN

Having the pre-duster (flame sinking set) built-in prevents fire.

STANDARD DIMENSION



SPECIFICATION

TYPE	NGC-400	NGC-510	NGC-800
POWER	220V 1P, AC 50Hz, 60Hz (Option)		
CMM (m³/min)	8	8	8
BLOWER	CONSTANT PRESSURE(mmAq)	110	110
	MOTOR (KW)	0.4	0.4
	SIZE (W x L)	365 x 336	365 x 336
	QUANTITY (EA)	1	1
FILTER	FILTRATION SIZE(m²)	1.58	1.58
	MATERIALS	POLYESTER	POLYESTER
	SHAKING DUST OFF	Handle type	Handle type
	MOTOR (W)	400	510
GRINDER	grinding wheel (Ø x T)	150 x 22	200 x 22
		225 x 25	
SIZE (mm)	A	470	470
	B	612	612
	C	760	760
	E	110	110
	F	1,011	1,018
	G (Ø)	125	125
	H	82	82
	J	1,201	1,201
		1,298	
CAPACITY OF DUST BOX(ℓ)		10	10
APPROX. WEIGHT(kg)		85	90
		95	

These specifications may be changed without notice in order to improve capability.

MST Series



Compact structure for use in a small space in the factory.



Sandpapering / Drilling / Cutting / Mixing / Grinding

FEATURE

- You can open each side and the upper part wider to allow bigger material.
- Downward suction type, high collecting efficiency.
- Minimizes noise by locating outlet on top.
- Wheels for easy moving.



<Sides Opening Type>



MST-200

SPECIFICATION

TYPE		MST-200	MST-200CB
POWER		220V 1P, 220/380/415/440V 3P 50Hz, (60Hz)	
BLOWER	CMM (m³/min)	25	25
	CONSTANT PRESSURE(mmAq)	160	160
	MOTOR (KW)	1.5	1.5
FILTER	SIZE (W x L)	200 x 424	200 x 424
	QUANTITY (EA)	16	16
	FILTRATION SIZE(m²)	3.2	3.2
	MATERIALS	POLYESTER - WOVEN FABRIC	
SHAKING DUST OFF		HAND SHAKING	
SIZE (mm)	A	750	1000
	B	770	700
	C	1,422	1,132
	G (Ø)	200	200
	H	68	68
	J	1,563	1,200
CAPACITY OF DUST BOX (ℓ)		11	46
APPROX. WEIGHT (kg)		145	145
FIGURE		FIGURE 1	FIGURE 2

These specifications may be changed without notice in order to improve capability.

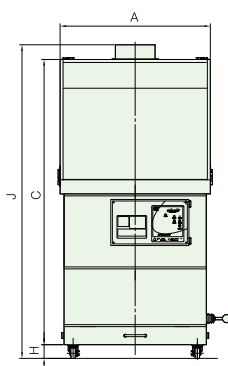


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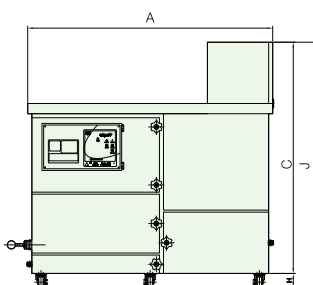
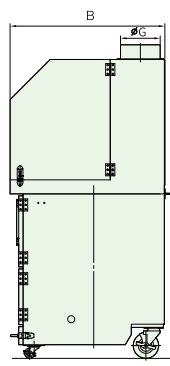


그림2

DUST COLLECTOR OPTIMIZED FOR CLEANROOM

SH Series

POLLUTION-FREE CONSTRUCTION DUST COLLECTOR FOR CLEANROOMS

Works that generates fume / Laser Processing Machine / Mixer Works / Powder input works / Drilling works / Cutting works / Metal processing works / Air transportation slot / Casting cutting works / Mixing works / Crusing works / Stone carving works

FEATURE

RING BLOWER/TURBO BLOWER(OPTION)

Equipped with the high performance rign blower, suction power has been increased and dust and chips adhered to the contact surface can be collected with the strong suction power.



SEPARATED IN TWO PARTS

Prevent the secondary contamination when filter replacement or dust removal by separating upper & lower parts of the dust collector.

POSSIBLE TO FEED CALCIUM CARBONATE or ZEOLITE

Equipment that suppress the occurrence of a fire and increase the efficiency of dust elimination.

SPECIFICATION

TYPE		SH-200/629	SH-300/729
POWER		220/380/415/440V 3P	
BLOWER	CMM (m³/min)	5.2	10.9
	CONSTANT PRESSURE(mmAq)	2,800	2,800
	MOTOR (KW)	3.7	6.3
FILTER	SIZE (W x L)	145 x 500L	145 x 500L
	QUANTITY (EA)	6	9
	FILTRATION SIZE(μm)	11.25	15.53
	MATERIALS	POLYESTER	
SHAKING DUST OFF		TYPE OF AUTO AIR PULSE	
SIZE (mm)	A	640	820
	B	770	770
	C	1,568	1,648
	D (∅)	119.5	119.5
	G (∅)	98	98
	H	82	82
	J	1,710	1,790
CAPACITY OF DUST BOX(ℓ)		15	20
APPROX. WEIGHT(kg)		220	325

These specifications may be changed without notice in order to improve capability.

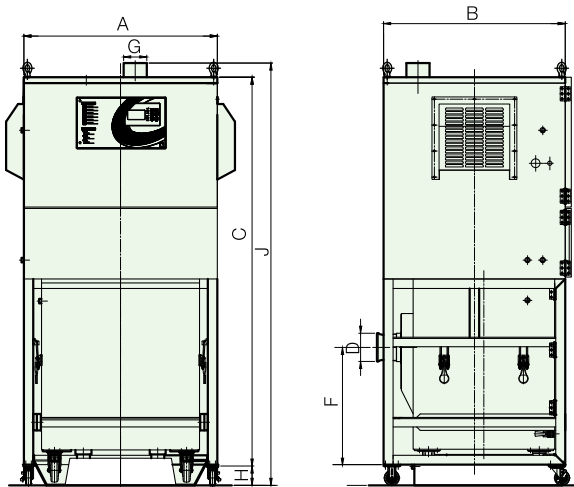


Efficient Filter Cleaning System



- Automatic Air Pulsing when the differential pressure meets the setup value.
- After turn-off, pulsing starts in several cycles for maximum efficiency.
- Set-up in pulsing type, cycle, time available.

STANDARD DIMENSION



APH Series

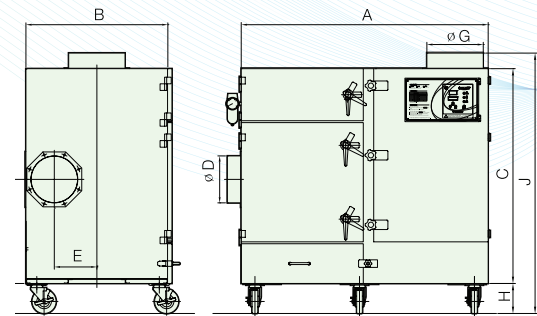
Compact structure for use in low factory spaces.



NC processing / CNC lathe / milling processing / Homing machine / Tapping machine / Electric discharge / Machine / Spray coating work / Applying different body type / Machine tool / Release agent spraying



STANDARD DIMENSION



FEATURE

Minimize its overall height to fit into work places and easy installation near machines.

FILTER

- Available to collect minute dust because of the large face of the filter and cartridge type.
- Easily changed compact structure using unitary filter.
- Hopper type with dust box, easy to handle collected dust.

Digital Controller



- Digital Control Panel : Soft LED touch switch in color LCD. (Indication the digital differential pressure and digital current value, alarm, status)
- Digital Differential Pressure Control : Indication over differential pressure by pressure sensor.
- Digital Current Indication : Available to catch Overload, Disconnection, Unbalanced Current by CT. (Current Transformer)
- Operation / Stop at Panel, Remote mode, Link, RS485PC Communication. Pulsing : Manual, Semi-Auto, Auto, External Signal.
- User Convenience : Language (Korean, English), RS-485 PC Communication Support, Accumulated Operating Hours.

CONTINUAL OPERATION

It's possible for it to work for 24 hours as it automatically removes dust inside the dust collector.

SPECIFICATION

TYPE		APH-200	APH-300	APH-500
POWER		220V1P, 220V/380V 3P 50 Hz	220V/380V 3P 50 Hz, 440V (Option), 60Hz (Option)	
BLOWER	CMM (m ³ /min)	25	33	54
	CONSTANT PRESSURE (mmAq)	160	160	160
	MOTOR (KW)	1.5	2.2	3.7
FILTER	SIZE (W x L)	Ø145 x 500L x 75		
	QUANTITY (Pocket)	6	9	12
	FILTRATION SIZE (m ²)	11.25	16.87	22.5
	FILTRATION SPEED (m/min)	2.2	2.4	2.7
	MATERIALS	POLYESTER		
SHAKING DUST OFF		TYPE OF AUTO AIR PULSE		
NUMBER OF SOLENOID VALVES		3		4
VOLUME OF AIR CONSUMPTION (Nl/min)		20	30	35
SIZE (mm)	A	1,250	1,250	1,535
	B	570	750	750
	C	1,135	1,135	1,100
	D(Ø)	200	250	250
	E	135	200	225
	F	550	550	516
	G(Ø)	250	300	300
	H	132.5	132.5	132.5
	J	1,350	1,350	1,315
CAPACITY OF DUST BOX (ℓ)		45	65	83

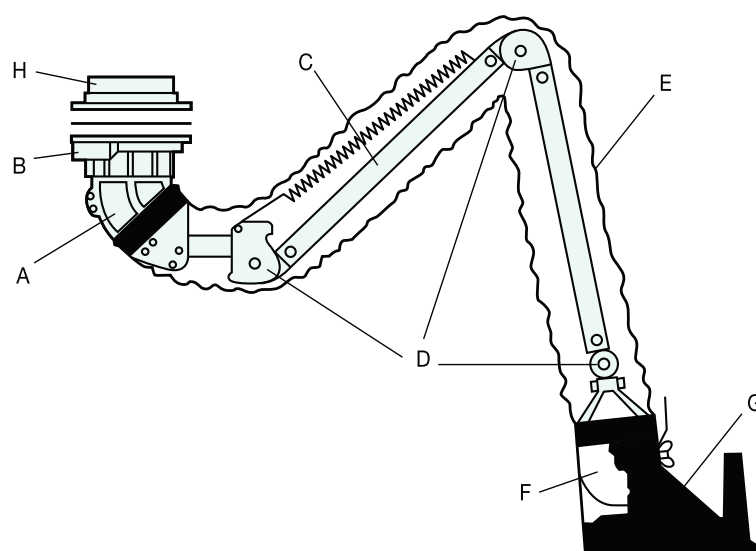
These specifications may be changed without notice in order to improve capability.

PORTABLE HOOD

FLEXIBLE ARM Series



Unrestricted movement, all-in-one hood and duct, flexible arm



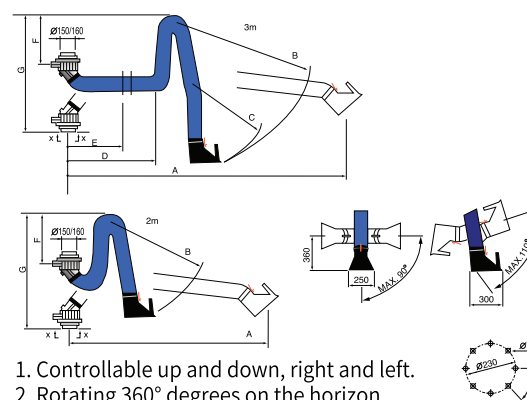
FEATURE

- Can be used in places where it's not possible to equip machines with hood and duct. Arm can rotate 360 degrees .
- Wind output control available with attaching damper to arm hood.
- It is fixed to a desirable location, and can move without limit and vibration.

ARM

- A. 360 degree swivel elbow.
- B. Support flange.
- C. Internal support.
- D. Pre set joints with wear discs, can be readjusted if required.
- E. Fiberglass reinforced PVC hose, 160mm dia. maximum operating temperature is 70°C.
- F. Damper with positive seal.
- G. Oval polycarbonate hood, 250mm * 300mm. Optional lightweight package available.
- H. Counter flange for ventilation duct $\Phi 150$ / $\Phi 160$ mm dia. Not required with fan.

ORIGINAL ARM DIMENSION(mm)



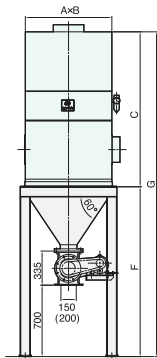
	2m	3m	4mH	4mV
A	2,000	3,000	4,000	4,000
B	1,050	1,050	1,000	2,100
C	-	-	1,000	1,000
D	-	1,050	2,000	930
D	-	710	1,050	-
F	460	360	860	860
G	1,000	1,000	1,500	1,630

These specifications may be changed without notice in order to improve capability.

HOPPER Series

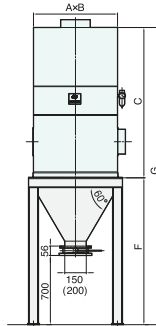


Vast quantity of dust discharge system or automatic assembly line



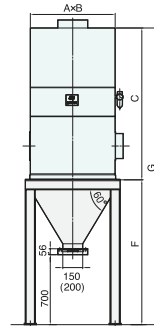
ROTARY VALVE TYPE

This increases handling efficiency and collects dust while continually discharging a high quantity of dust.



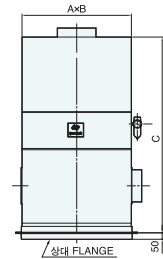
BUTTERFLY VALVE TYPE

One touch discharge is available with strong airtightness to prevent leakage of dust and air.



SLIDE GATE TYPE

It is convenient to manage collected dust periodically using gunny bag and burlap bag in discharging dust.



BIN MOUNT TYPE

This is a compact way to collect dust, directly attached to the machine.

SPECIFICATION

	MS SERIES							AP SERIES									APH-200HS	APH-300HS	APH-500HS
	MS100	MS200	MS300	MS500	MS750	MS1000	MS1500	AP100	AP200	AP300	AP500	AP750	AP1000	AP1500	AP2000	AP3000			
A(mm)	520	620	770	770	1,200	1,500	1,800	520	620	750	850	1,290	1,700	1,700	1,950	2,010	1,250	1,250	1,490
B(mm)	520	620	770	770	770	770	950	520	620	750	750	900	900	950	1,000	1,250	570	750	750
C(mm)	1,190	1,310	1,447	1,447	1,582	1,447	1,582	1,325	1,435	1,480	1,520	1,700	1,590	1,930	1,950	2,125	975	975	975
D(mm)	1,360	1,487	1,637	1,637	2,050	2,550	2,550	1,360	1,530	1,665	1,722	2,140	1,790	1,790	1,910	1,940	1,409	1,409	1,504
E(mm)	2,550	2,797	3,084	3,084	3,632	3,697	4,162	2,685	2,965	3,145	3,242	3,840	3,380	3,720	3,860	4,065	2,384	2,384	2,479
F(mm)	1,081	1,208	1,358	1,358	1,771	1,971	2,301	1,081	1,251	1,386	1,443	1,861	1,516	1,516	1,631	1,661	1,130	1,130	1,225
G(mm)	2,271	2,518	2,805	2,805	3,353	341	3,883	2,406	2,686	2,866	2,963	3,561	3,106	3,446	3,581	3,786	2,105	2,105	2,200

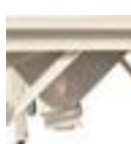
These specifications may be changed without notice in order to improve capability.



ROTARY VALVE



BUTTERFLY VALVE



SLIDE GATE



Medical Dust



Vietnam, AP series Installation



Carbon Dust



Crashing



Wood Cutting

CBF Series

Customized dust filtration equipment

The principle of dust filtration system is the collection of dirty gases which are generated from the worksite, through filters adopting ‘air pulse jet’ dust off way to reduce filter blocking.

DUCLEAN designs optimized dust filtration equipment to meet their respective process.



Paint Industry CBF



Applicable types of business

- Workplaces which have a large amount of specific gravity and dust. (wood, cement, incineration plant, pharmaceutical industry)
- Workplaces which generate adhesive dust. (plastic, zinc hot dipgalvanizing)
- Workplaces which generate explosive dust and nonferrous dissolving metals. (aluminum, magnesium)
- Workplaces which generate dust and odor. (floor sand, injection)
- Dust generated by carrying coal or ash. (power plant, incineration facility)
- Workplaces which need to improve working environment.

Quick, correct and responsible construction

- Correct inspection and production management.
- Focus on safety management.
- Quick construction and worksite management for customer satisfaction.

Engineering design considered for design factor

- Adopting optimized filtration speed for respective dust.
- Applying optimized updraft velocity.
- Considered design for dust amount.
- Structural modification to satisfy dust adhesive.
- Adopting control velocity to satisfy dust characteristic.

Customer impressions & customer satisfaction maintenance

- Maintenance system considered for customer side.
- Immediate action and response.
- Continuous management and consulting.



Medical Industry CBF



YoungNam Subsidiary



YoungNam Subsidiary



Vietnam CBF+AP



Grinding, Sanding



Nonferrous Metal Melting CBF

CWS Series



Wet scrubber equipment can capture odor, smell and dust



Odor Capturing at Sewage Treatment Plant

The basic principle of wet scrubber is that inhaling harmful gases (water soluble), washing with cleaning water through spraying device / using filler to contact gas-liquid sufficiently, widened filler layer of specific surface area, also using demister to prevent scattering cleaning water and exhaust filtered gas.

DUCLEAN takes responsibility for optimized design and construction to meet their respective gases characteristic such as wet scrubber, acid & alkali scrubber, Venturi scrubber.

Applicable types of business

- . Workplaces which generate severe odor and gas specific gravity. (food waste, sludge recycling company)
- . Workplaces with steam and gases that have high temperature and high percentage of water content. (heat treatment facility smelting furnace facility)
- . Workplaces which generate severe odors of acid, alkali and strong corrosiveness. (waste water disposal facility, sludge recycling company)
- . Workplaces that do plating, acid cleaning, remove fat, surface treatment facility. (plating company, PCB company)
- . Workplaces which are needed to improve working environment. (hood, duct design)

Key Point



Capturing Gases through Spraying on Venturi

- . Adopting optimized absorption facility after reviewing gas specific gravity and characteristics.
- . 20m³/min to 2000m³/min rate possible in various products.
- . Maximization of efficiency through installation bio filter, absorption tower, etc. at the end of wet scrubber.
- . Collecting severe odor & dust options available.
- . Engineering design with liquid gas ratio, nozzle, pump etc.
- . Responsible construction focused on customers including installation, trial run, maintenance.



Secondary process of lead melting dust



CWS



Venturi cyclone for nonferrous metal melting facility



Die casting venturi cyclone



Plating facility



Environmental equipment company **DUCLEAN**



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