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The best technology patent-holding company in Korea
Selected as a technology innovation company (visionary company, venture company, INNO-BIZ company)
The first and only UL-certified company in the industry
Acquired the largest overseas certification standard in Korea

Environmental permitting and consulting agency
Registered environmental specialist construction company



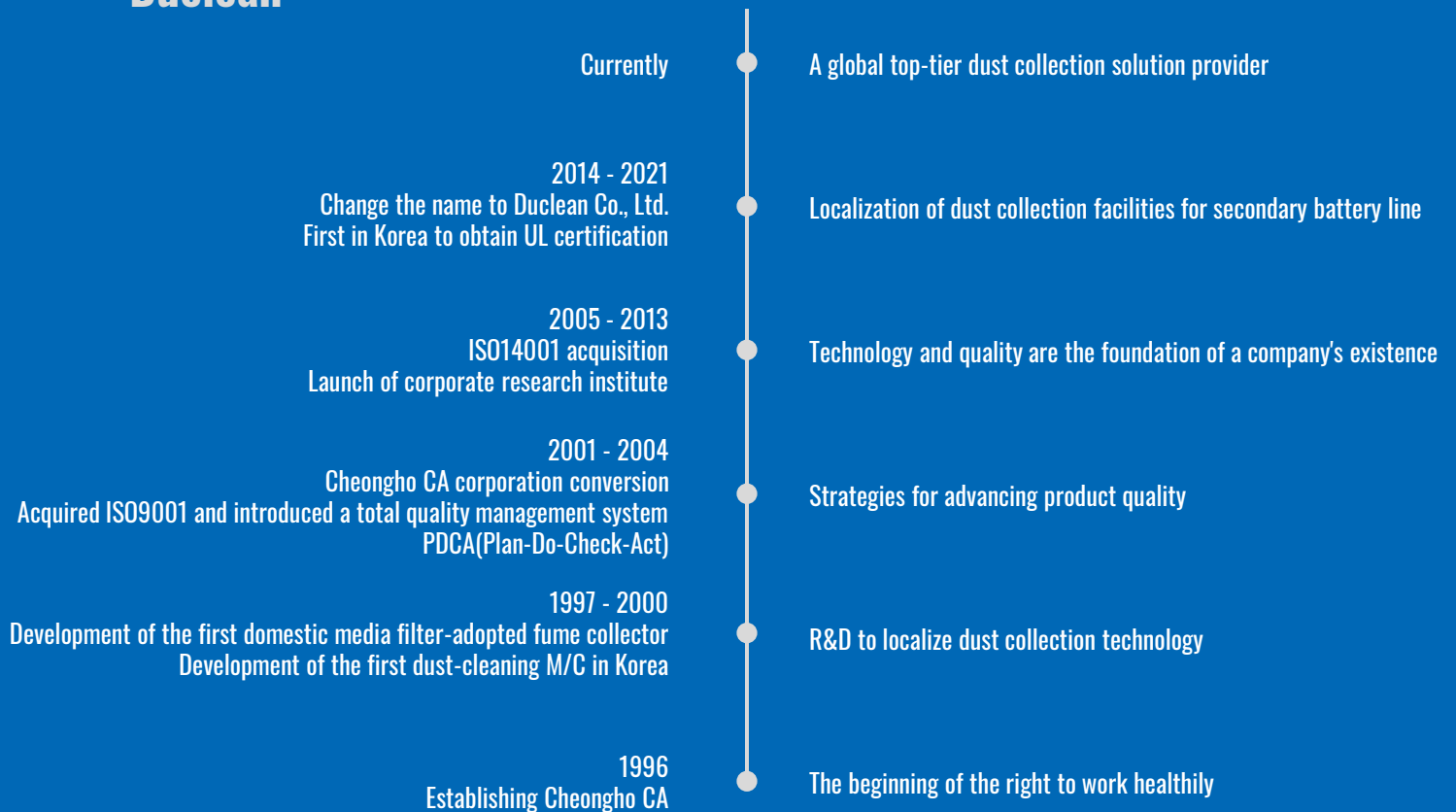
For a safer working environment since 1996

Duclean Co., Ltd. is a One-Stop Total Solution environmental construction company. Since 1996, we have been guided by the management philosophy of "realizing a clean environment through the best environmental technology and quality, and contributing to human society". This has resulted in satisfied customers, and as we expand globally, we want to keep our heads down and deliver only the best products and the best service.

With the most patented dust collection technology in Korea, Duclean has secured a portfolio of technologies with the most UL, CE, and ATEX explosion-proof certifications in the industry. Every year, we are constantly striving to achieve a global brand based on quality innovation in response to various dust collection environmental processes and patent and utility model registration through new product development.

We will continue to strive to be a company that prioritizes green technology, clean environment, and healthy life, and a company that is trusted and trustworthy. We're deeply grateful for your support so far, and we'll continue to work hard to keep the momentum going.

Standard for dust collectors, Duclean



Industrial property and certification holdings

Patents

Filter cartridges for dust collector
No. 10-2672976 | 2024.06.03

Compact scrap recycler
No. 10-2665861 | 2024.05.08

Scrap separator of a scrap collection device having a multi-layer structure
No. 10-2532526 | 2023.05.10

Scrap separator of scrap collection device having airflow direction change plate
No. 10-2370956 | 2022.03.02

Detachable dust collector for clean room installation
No. 10-2071349 | 2020.01.22

Scrap collection devices to prevent backflow of scraps
No. 10-1937857 | 2019.01.07

Scrap collection devices
No. 10-1896490 | 2018.09.03

Safe installation structure of the dust collector
No. 10-1494092 | 2015.02.10

Wet vortex dust collector
No. 10-1483392 | 2015.01.09

For absorption towers with increased filtration area Installation structure of pre-filter
No. 10-1448422 | 2014.09.30

High speed impingement oil mist collector
No. 10-1448438 | 2014.09.30

Fire detection fume extractor
No. 10-1434181 | 2014.08.20

Dust collector remote control system
No. 10-1390201 | 2014.04.23

Dust separator for dust collector
No. 10-1367470 | 2014.02.19

Automatic calcium carbonate supply device
No. 10-1344133 | 2013.12.16

Dust removal device for dust collector
No. 10-1307600 | 2013.09.05

Centrifugal oil mist dust collector
No. 10-1289556 | 2013.07.18

Dust collector with easy filter changes
No. 10-1254924 | 2013.04.09

Desorption device for dust collector filter with blower nozzle and brush
No. 10-1133547 | March 29, 2012

Desorption device for dust collector filter
No. 10-1089386 | 2011.11.28

Desorption device for dust collector filter with blower
No. 10-1089388 | 2011.11.28

Desorption device for dust collector filter with suction body
No. 10-1089387 | 2011.11.28

Suction device for generating vortex using compressed air
No. 10-0970592 | 2010.07.08

Oil mist dust collector
No. 10-0942900 | 2010.02.09

Utility model · Design Trademarks · Services

Dust collector handle
No. 30-0944991 | 2018.02.13

Filter for dust collector
No. 30-0935222 | 2017.12.07

Dust collector filter for cleaning dirty air
No. 20-0484737 | 2017.10.12

Dust collector for cleaning dirty air
No. 20-0484735 | 2017.10.12

Filter for dust collector
No. 30-0935222 | 2017.12.07

Dust collector filter for cleaning dirty air
No. 20-0484737 | 2017.10.12

Dust collector device for cleaning dirty air
No. 20-0484735 | 2017.10.12

Filter for dust collector
No. 30-0927580 | 2017.10.17

Dust collector
No. 30-0881634 | 2016.11.11

Duclean trademark service registration
No. 45-056343 | 2015.05.20

Duclean service mark registration
No. 41-0314513 | 2015.03.03

Grinder dust collector with easy-to-change filters
No. 20-0457905 | 2012.01.03

Dust collector
No. 30-0600061 | 2011.05.19

MISZERO trademark registration
No. 40-0659549 | 2006.04.21

Cheongho CA service registration
No. 0076538 | 2002.06.19

Enterprise authentication

Promising small and medium business certification
No. 2024-18 | 2024.10.30

Designation as an excellent environmental industry company
No. 2024-01 | 2024.09.25

Register an environmental consulting firm
No. 2024-8 | 2024.08.28

Technology innovation type small and medium enterprises (INNO-BIZ)
No. 6074-1620 | 2024.08.25

Construction business registration (Mechanical equipment and gas engineering business)
계양-24-III-01 | 2024.04.04

Certificate of specialized company for material components equipment
No. 29767 | 2022.11.29

Visionary enterprise certification
No. 2020-72 | 2020.11.24

Registration of air environment specialist business
No.60 | 2019.06.03

ISO 14001:2015 International environmental management system certification
ICR /E077715 | 2018.06.01

ISO 9001:2015 International quality management system certification
ICR /Q158515 | 2018.06.01

FTA origin certification exporter certification
Certification: 020-12-200288 |

Exporter's certificate of origin certification by item
020-12-200288 |

Venture business certification
No. 20110104462 | 2011

Designated as an export promising small business
No. 10 Incheon-62 | 2010

KOTRA endorsed brand quality/technology
KOTRA 2009-130 | 2009

Corporate research institute
No. 20072700 | 2007.11.05

Selected as a promising small business
No. 06-1912 | 2006.03.08

International standardized products

[Risk assessment-common standards]

- EN ISO 14118:2018 Safety of machinery - Prevention of unexpected start-up
- EN ISO 12100: 2010 Safety of machinery - Risk assessment and risk reduction
- EN 60204-1:2018 Safety of machinery - Electrical equipment of machines - part 1: General requirements
- EN ISO 13849-1: 2015 Safety of machinery - Safety-related parts of control systems - part 1: General principles for design
- EN ISO 13850: 2015 Safety of machinery - Emergency stop function
- EN ISO 14120: 2015 Safety of machinery - Guards - General requirements for the design and construction of fixed and movable guards

[Applicable certification standard]

[IEC-Machinery] CE Marking

- Machinery - Directive 2006/42/EC
- Electro Magnetic Compatibility - Directive 2014/30/EU

[IECEx-System] ATEX Marking

- Equipment for explosive atmospheres - Directive 2014/34/EU

[NEC-Machinery] [NEC-Machinery UL Marking GPNY.E510787

- Factory Automation Equipment - UL2011 (NFPA79 and UL508A)
- Enclosures for Electrical Equipment - UL50, UL50E

[CEC-Machinery] cUL Marking GPNY7.E510787

- Industrial Control Equipment - CSA C22.2 No.14
- Enclosures for Electrical Equipment - UL50, UL50E

LINE-UP DUST COLLECTORS

Dry dust

Cutting chip
Non-metallic scrap (SCRAP)
Non-sticky dust
Fine dust



AP



APR



APC



APS



MS



MSR



MST



NGC



SC

Flammable dust

Aluminum fume
Titan
Epoxy | Starch



APD



APX

Fume

Welding fume, soldering fume
Laser marking fume, rubber cutting fume



FC



CHB

Oil mist

Water-soluble, non-water-soluble mist
Cutting - chip
Spray mist



OMC



DMC

Odor

Soldering fume
Laser marking fume
Laser engraving work fume
Laboratory chemical odors
Polishing precious metals
Paint manufacturing, chemical process odors
Organic compounds (VOCs)



LC








ACT



ZF

LINE-UP OPTIONAL | FILTER

Dedicated options

		
[PCI] Calcium carbonate Automatic feeding device	[NVFM] Differential nozzle-venturi flow meter	[ARM] Flexible arms
		
[BIBO] Sliding filter plate	[Duclean Pack] Continuous vinyl for dust treatment	

Filters for dust collectors

			
Default filter [PET]	Membrane filter [PTFE]	Electrostatic filter [PET]	Electrostatic filters [PTFE]
			
Flame retardant filter	Bag filter	Cotton bag-filter	Vee bag filter
			
Demister filter	Pre filter	Medium filter	Activated carbon
			
H.E.P.A filter	U.L.P.A filter	ACF filters	

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CARTRIDGE TYPE DUST COLLECTOR

AP Series

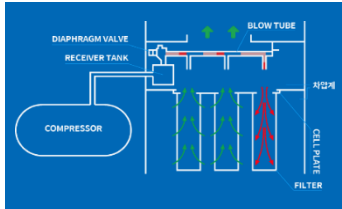
Cartridge type Dust collector



Air-pulsed dust collectors for easy filter maintenance

Mixing | Powder feeding | Circuit board processing | Combining
 Bag handling | Metalworking | Air conveying inlet
 Sanding | Casting cutting | Drilling | Cutting
 Shearing | Stone carving | Crushing

✓ Efficient filter cleaning



- Automatic filter cleaning
Automatically detects filter clogging (above a set differential pressure threshold) and cleans it (Requires compressed air in the workshop)
- Settings can be adjusted to suit site-specific conditions
- Minimizes filter damage, thereby extending its service life

✓ Cartridge filter



- Cartridge filter provides large filtration area and is integrated with the cell plate for easy replacement
- Material : PE, Membrane, Nomex | Can be made antistatic (aluminum coated), flame retardant, water repellent
- * Antistatic (aluminum-coated): excellent protection against static electricity | Flame-retardant: does not spread fire easily
 Water repellent: Prevents water invasion but allows air to pass through | Membrane: 0.3µm dust collection efficiency 99.874%

✓ Turbo blower

- In-house production of turbo blowers for the most efficient performance management system
- High airflow, fixed pressure, low vibration, low noise

✓ Digital controllers



- Equipped with a color LCD and soft-touch switches
- Interface: Standard mode is used for integration with external devices (PC, PLC, etc.)
- Error reporting: Displays error alarms and alarm history when abnormalities are detected
- Digital differential pressure, digital current, operational accumulation, and error status indicator functions
- Inverter-only controller: manual/automatic inverter control (optional)

✓ **Dedicated options**



APV Series
Vacuum cleaner
attachment



AP-/FA
Flexible arm
mounted

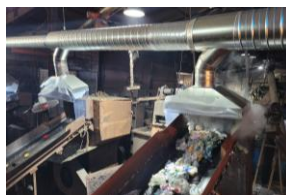


API Series
Drawer basket type



APK Series
Air tank rear
and draw basket type

✓ **Installation construction examples**



Dust collection from waste grinding



Dust collection from waste wood
shredding



Dust collection from waste grinding



Dust collection from asbestos processing



Dust collection from waste grinding



Dust collection from drilling operations

✓ **Standards**



✓ **Specs**

TYPE		AP-100	AP-200	AP-300	AP-500	AP-750	AP-1000	AP-1500	AP-2000	AP-3000	
Power		220V single phase, 220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)				220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)					
BLOWER	Air volume (m³/min)	60Hz	12	25	40	65	80	100	160	200	300
		50Hz	10	21	33	54	67	83	133	167	250
	Static pressure (mmAq)	60Hz	230	230	230	230	300	300	300	300	250
		50Hz	160	160	160	160	208	208	208	208	174
MOTOR(kW)		0.75	1.5	2.2	3.7	5.5	7.5	5.5 x 2SET	7.5 x 2SET	11 x 2SET	
Filter	Size (WxL)	Φ145 x 500L x 75				Φ145 x 800L x 75			Φ165 x 800L x 75		
	Quantity	4	6	9	12	12	18	24	24	32	
	Filtration area (m²)	7.5	11.25	16.88	22.5	36	54	72	100.8	134.4	
SIZE (mm)	A Horizontal	520	620	770	850	910	1,370	1,750	1,950	1,980	
	B Vertical	545	645	795	795	855	875	925	1,025	1,275	
	D1 Inlet (Ø)	150	200	250	250	300	350	400	500	600	
	D2 Outlet (Ø)	200	200	300	300	350	400	450	550	650	
	H Overall height	1,535	1,680	1,800	1,875	2,315	2,285	2,305	2,305	2,485	
Bucket capacity (ℓ)		16	25	40	45	55	40 x 2	50 x 2	55 x 2	75 x 2	
Standard weight (kg)		135	190	310	350	550	650	800	1,080	1,150	

※ These specifications are subject to change without notice to improve performance. ※ The external dimensions in the table are subject to a tolerance of ±5 mm.

CARTRIDGE TYPE DUST COLLECTOR (RING BLOWER)

APR Series

Fixed pressure Cartridge dust collectors

Fixed-pressure air-pulse dust collector
designed for easy filter maintenance

Mixing | Powder feeding | Circuit board processing | Mixing
Bag handling | Metalworking | Air conveying inlet
Sanding | Casting cutting | Drilling | Cutting
Shearing | Stone carving | Crushing



✔ Ring blower

- Equipped with a high-performance ring blower capture dust, chips, and more with powerful suction that sticks to contact surfaces

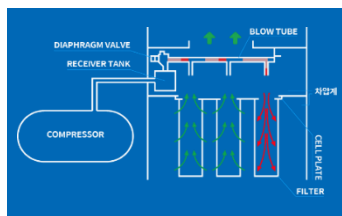
✔ Compact structure

- Compact design enables efficient space utilization, allowing storage under the workbench

✔ Built-in silencers

- Built-in silencer for quiet operation in the workplace

✔ Efficient filter cleaning



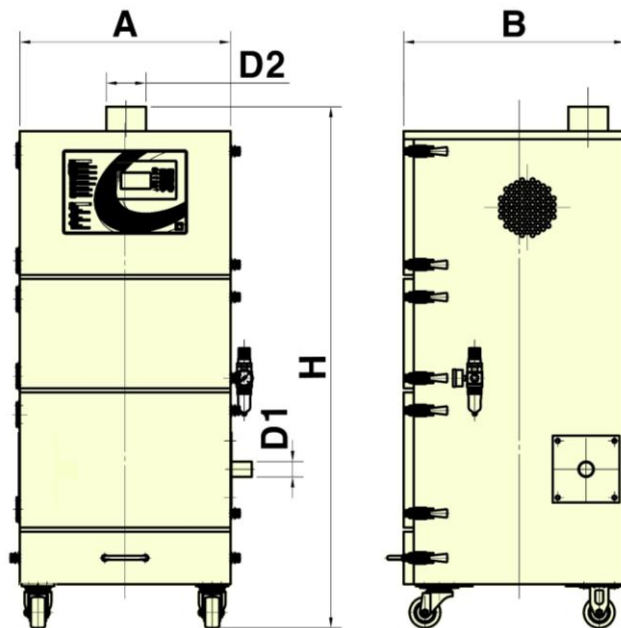
- Automatic filter cleaning
Automatically detects filter clogging (above a set differential pressure threshold) and cleans it (Requires compressed air in the workshop)
- Settings can be adjusted to suit site-specific conditions
- Minimizes filter damage, thereby extending its service life

✔ Digital controllers



- Equipped with a color LCD and soft-touch switches
- Interface: Standard mode is used for integration with external devices (PC, PLC, etc.)
- Error reporting: Displays error alarms and alarm history when abnormalities are detected
- Digital differential pressure, digital current, operational accumulation, and error status indicator functions
- Inverter-only controller: manual/automatic inverter control (optional)

Standards



Specs

TYPE		APR-329	APR-339	APR-429	APR-629	APR-639	
Power		220V single phase, 220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)			220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)		
BLOWER	Air volume (m ³ /min)	60Hz	2.9	2.9	4.2	6.2	6.2
		50Hz	2	2	4	5	5
	Static pressure (mmAq)	60Hz	1,400	2,300	2,200	2,800	3,200
		50Hz	972	1,597	1,528	1,944	2,222
MOTOR(kW)		0.85	1.5	1.9	3.7	4.6	
Filter	Size (WxL)	Φ145 x 250L x 75			Φ145 x 250L x 75		
	Quantity	4EA			6EA		
	Filtration area (m ²)	3.75			5.625		
SIZE (mm)	A Horizontal	520	520	520	620	620	
	B Vertical	550	550	550	650	650	
	D1 Inlet (Ø)	40	45	45	75	75	
	D2 Outlet (Ø)	100	100	100	125	125	
	H Overall height	1,290	1,290	1,310	1,450	1,450	
Bucket capacity (ℓ)		16	16	16	35	35	
Standard weight (kg)		135	135	155	190	190	

※ These specifications are subject to change without notice to improve performance. ※ The external dimensions in the table are subject to a tolerance of ±5 mm.

DUST COLLECTOR FOR CLEANROOM

APC Series

Cleanroom optimization Cartridge type dust collectors

Patent No. 10-2071349

Constructed to prevent workplace contamination

Fume generation | Laser machining | Mixing | Powder feeding
Substrate processing | Batching | Metalworking | Stone carving
Air transport inlet and outlet | Sanding | Casting | Mixing
Drilling | Cutting | Shearing | Crushing



✓ Up-down detachable

- Effectively prevents on-site contamination during filter replacement and dust disposal
- Filter compartment and dust drawer can be separated for off-site processing

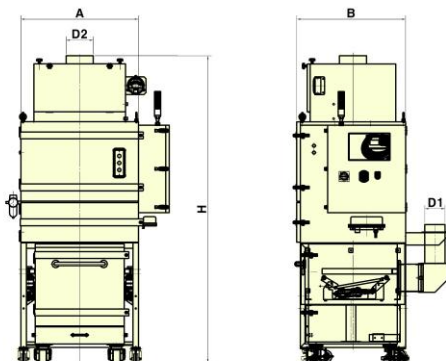
✓ Compatible with calcium carbonate and zeolite (PCI-30)

- An integrated dust collector structure that enhances fire suppression and dust removal efficiency

✓ Efficient filter cleaning

- Detect clogged filters and clean them automatically
- Less damage to filters, helping to extend filter life

✓ Standards



✓ Specs

TYPE		APC-300/500	APC-300/750	
Power		220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)		
BLOWER	Air volume (m³/min)	60Hz	25	25
		50Hz	21	21
	Static pressure (mmAq)	60Hz	450	700
		50Hz	313	486
MOTOR(kW)		3.7	5.5	
Filter	Size (WxL)	145 x 500L	145 x 500L	
	Quantity	9	9	
	Filtration area (m²)	16.88	16.88	
SIZE (mm)	A Horizontal	860	860	
	B Vertical	800	800	
	D1 Inlet (Ø)	150	150	
	D2 Outlet (Ø)	200	200	
	H Overall height	2,250	2,250	
Bucket capacity (L)		20	20	
Standard weight (kg)		325	330	

※ These specifications are subject to change without notice to improve performance.
 ※ The external dimensions in the table are subject to a tolerance of ±5 mm.

DUST SUPPRESSION DUST COLLECTOR

APS Series

Dust collector to suppress dust in the workplace

Designed to prevent dust dispersion during filter replacement and disposal operations

Laser processing | Mixing | Powder feeding
Substrate processing work | Batten work | Metal processing work | Stone carving work
Air transport inlet and outlet | Sanding | Casting | Mixing
Drilling | Cutting | Cutting and sizing | Crushing



✔ Prevents respiratory illness for users



- Apply a bag in bag out (BIBO) structure
- Continuous vinyl cartridge application for dusting

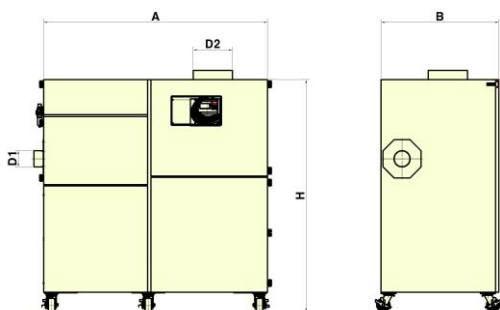
✔ Camlock structure

- Filter parts with robust, removable construction

✔ Cartridge filter

- Filter media is processed into a cartridge shape to increase the filtration area and capture even fine dust
- The filter and cell plate are integrated for easy replacement
- Optional hopper type for handling more dust (optional)

✔ Standards



✔ Specs

TYPE		APS-300	
Power		220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)	
BLOWER	Air volume (m³/min)	60Hz	40
		50Hz	33
	Static pressure (mmAq)	60Hz	230
		50Hz	160
MOTOR(kW)		2.2	
Filter	Size (WxL)	Φ165 x 350L x 75	
	Quantity	9	
	Filtration area (m²)	16.54	
SIZE (mm)	A Horizontal	1,700	
	B Vertical	950	
	D1 Inlet (Ø)	248	
	D2 Outlet (Ø)	298	
	H Overall height	1,830	
Basket capacity (ℓ)		45	
Standard weight (kg)		600	

※ These specifications are subject to change without notice to improve performance.
 ※ The external dimensions in the table are subject to a tolerance of ±5 mm.

BAG FILTER TYPE DUST COLLECTOR

MS Series

Bag filter type Dust collector

A dry, general-purpose dust collector with easy and economical filter replacement

Polishing | Bagging | Powder feeding
Cutting | Drilling | Cutting and sizing
Machining | Mixer | Acrylic processing
Sanding | Crushing | Casting



✔ Efficient filter cleaning [bag filter type]

Dusting method

- Manual (hand shaking): The operator shakes the handle to dislodge dust, which detaches more effectively when removing dust after the fan stops
- Automatic (motor shaking) : The differential pressure sensor detects the filter dirty condition and automatically activates the shaking motor after the fan operation to shake off the dust

✔ Filter



- Mount a square flat pocket-type filter
- Can be equipped with filters to match dust characteristics (antistatic, water repellent, cotton)
- One-piece construction for easy filter replacement

✔ Turbo blower



- Self-production of high-volume, fixed pressure, low-vibration, low-noise turbo blowers through precision molds

✔ Digital controllers



[Auto]

- Digital control panel: LED touch switches and color LCD screen
- Digital differential pressure metering control: digital numerical and graphical display of differential pressure values
- Digital ammeter function: check operating status with real-time current value display on digital screen
- Error alarm system in case of abnormalities: view alarm history and display error contents
- Automatic motor shaking function: detects pressure differentials for efficient filter shedding



[Manual]

- Digital control panel: soft LED touch switch method
- Built-in external operation (remote/interlocking) control function: Provides default terminal block and one-touch setting change
- Check operating status with real-time current and voltage display
- Error status indication (undervoltage, overcurrent, etc.)

✓ **Dedicated options**

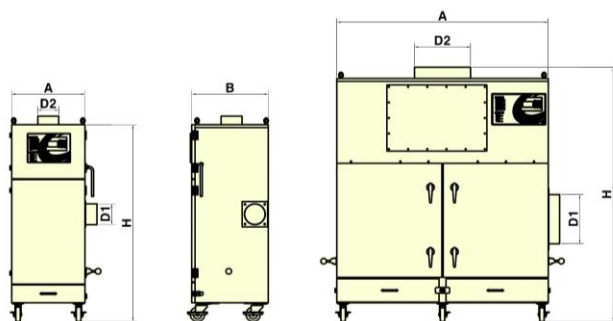


MSV Series
Vacuum cleaner
attachment



MS-/FA
Flexible arm mounted

✓ **Standards**



✓ **Installation construction examples**



Dust collection from glass processing



Dust collection generated
when mixing semiconductor component
powders



Dust collection during packaging
operations



Dust collection from flour mixing



Dust collection generated
during color steel plate processing



Dust collection during acrylic and PC
processing

✓ **Specs**

TYPE		MS-50	MS-100	MS-200	MS-300	MS-500	MS-750	MS-1000	MS-1500	
Power		220V Single Phase, 220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)			220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)					
BLOWER	Air volume (m³/min)	60Hz	7	12	25	40	65	80	100	160
		50Hz	6	10	21	33	54	67	83	133
	Static pressure (mmAq)	60Hz	210	230	230	230	230	300	300	300
		50Hz	146	160	160	160	160	208	208	208
MOTOR(kW)		0.55	0.75	1.5	2.2	3.7	5.5	7.5	5.5 x 2SET	
Filter	Size (WxL)	420 x 200	420 x 600		640 x 650					
	Quantity	8	7	14	15	20	30	40	50	
	Filtration area (m²)	1.34	3.53	7.06	12.48	16.64	24.96	33.28	41.6	
SIZE (mm)	A Horizontal	450	520	620	770	770	1,080	1,580	1,950	
	B Vertical	545	545	645	795	795	880	930	980	
	D1 Inlet (Ø)	100	150	200	250	250	300	350	400	
	D2 Outlet (Ø)	125	150	200	300	300	350	400	450	
	H Overall height	885	1,430	1,565	1,725	1,770	1,960	1,970	2,015	
Shaking motor (Optional)		-	0.2kW x 1SET				0.2kW x 2SET			
Bucket capacity (ℓ)		9	16	25	65	65	46	30 x 2	38 x 2	
Standard weight (kg)		80	120	160	220	250	340	450	485	

※ These specifications are subject to change without notice to improve performance. ※ The external dimensions in the table are subject to a tolerance of ±5 mm.

VACUUM DUST COLLECTOR (RING BLOWER)

MSR Series

Bag filter type Vacuum dust collectors

Durable, fixed-pressure vacuum dust collectors

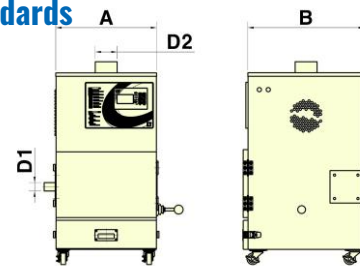
Laser processing machine | Plasma processing machine
Cast iron | Cast steel gouging operation
Welding | Metal cutting processing



✓ Pros

- Equipped with a high-performance ring blower, it captures dust, chips, etc. stuck to the contact surface with powerful suction power
- By minimizing the dust collector structure, it can be installed and operated under a table in a narrow workspace
- Built-in silencer for quiet operation in the workplace

✓ Standards



✓ Specs

TYPE		MSR-229	MSR-329	MSR-339	MSR429	MSR-529	MSR-629	MSR-639	
Power		220V single phase, 220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)				220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)			
BLOWER	Air volume (m³/min)	60Hz	1.7	2.9	2.9	4.2	6.2	6.2	6.2
		50Hz	1	2	2	4	5	5	5
	Static pressure (mmAq)	60Hz	1,700	1,400	2,300	2,200	2,200	2,800	3,200
		50Hz	1,181	972	1,597	1,528	1,528	1,944	2,222
MOTOR(kW)		0.5	0.85	1.5	1.9	2.6	3.7	4.6	
Filter	Size (WxL)	420 x 100L	420 x 200L						
	Quantity	8							
	Filtration area (m²)	0.67	1.34						
SIZE (mm)	A Horizontal	450	450	450	450	520	520	520	
	B Vertical	525	545	545	545	545	545	545	
	D1 Inlet (Ø)	40	40	45	45	65	65	65	
	D2 Outlet (Ø)	100	100	100	100	100	100	100	
	H Overall height	645	895	895	935	975	975	975	
Bucket capacity (ℓ)		6	12	12	12	12	12	12	
Standard weight (kg)		65	70	70	80	100	100	100	

※ These specifications are subject to change without notice to improve performance. ※ The external dimensions in the table are subject to a tolerance of ±5 mm.

ULTRA-SMALL DUST COLLECTOR

SC Series**Ultra-compact dust collector****Ultra-compact dust collector that maximizes space utilization**

Electronic precision equipment and parts processing work
Dental laboratory | Substrate processing
Metalworking | Polishing | Pharmacy, pharmaceutical

**Model-specific dusting methods**

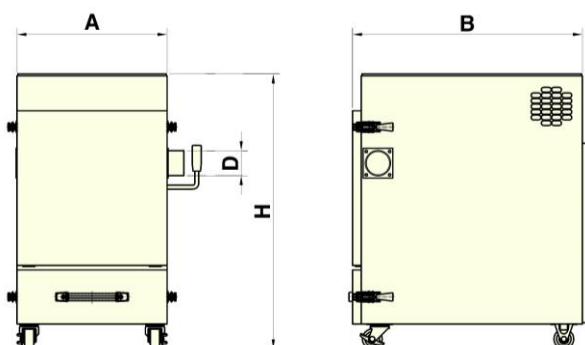
- SCN-50M (Auto-motor shaking) : The operating pattern is programmed into the microchip, so that when the power is off, the shaker rotates in an optimal cycle to effectively shake off the dust
- SC-50VH (Manual-handshaking): Operator shakes the filter shaker to shake off dust
Dust removal is most effective when performed after the fan stops

Compact design

- Compact design enables efficient space utilization, allowing storage under the workbench
- Ultra-compact, low-noise dust collector is perfect for indoor work
- Suitable for applications where low dust volume and high-pressure suction power are required

Square cartridge insert injection filter

- Injection type with square cartridge insert for easy filter replacement
- Insert injection according to the cartridge bending shape prevents dust accumulation inside the filter, thereby maintaining the initial filtration efficiency

Standards**Specs**

TYPE		SC-50VH	SCN-50M
Power		220V single phase, 220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)	
BLOWER	Air volume (m ³ /min)	60Hz: 4 50Hz: 3	4 3
	Static pressure (mmAq)	60Hz: 250 50Hz: 174	250 174
		MOTOR(kw)	0.6
	Filter	Size (WxL)	370 x 335 x 87T
Filtration area (m ²)		1.55	1.55
Quantity		1	1
SIZE (mm)	A Horizontal	380	380
	B Vertical	595	520
	D Inlet (Ø)	65	65
	H Overall height	695	660
Bucket capacity (ℓ)		5.5	3.9
Standard weight (kg)		55	50

※ These specifications are subject to change without notice to improve performance.
※ The external dimensions in the table are subject to a tolerance of ±5 mm.

GRINDER ATTACHED DUST COLLECTOR

NGC Series

Grinder integrated dust collector

Utility model No. 20-0457905

Grinder-mounted dust collector
designed to minimize dust dispersion at the source

Tool grinding | Buffing processing | For other grinding and processing work



KC Grinder cover
Report a self-safety check

KC standard : NGC-400(13-av1fg-0062)
KC compliance : NGC-510 (13-AV1FG-0061)
KC compliance : NGC-800 (13-AV1FG-0060)

✓ Installation construction case



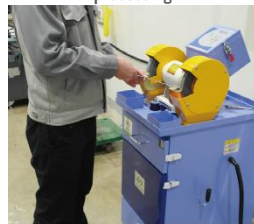
Metal dust collection during grinding and polishing operations



Dust collection during metal parts processing

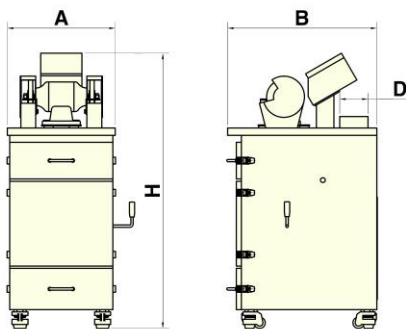


Dust collection during table grinder grinding



When designing pressure washer, high-pressure pump systems

✓ Standards



✓ Pros

- Integrated grinder dust collector captures generated dust without scattering
- Built-in SILENCER and large anti-vibration rubber mount absorb grinder vibrations to enable quiet operation
- Equipped with a built-in flame suppression device to prevent fire hazards

✓ Specs

TYPE		NGC-400	NGC-510	NGC-800
Power		220V single phase 60Hz, 50Hz(Optional)		
BLOWER	Air volume (m ³ /min)	60Hz	7	7
		50Hz	6	6
	Static pressure (mmAq)	60Hz	135	135
		50Hz	94	94
MOTOR(kW)		0.4	0.4	0.4
Filter	Size (WxL)	365 x 336	365 x 336	365 x 336
	Quantity	1	1	1
	Filtration area (m ²)	1.58	1.58	1.58
GRINDER	Power (W)	400	510	800
	Grinding stone (ØxT)	150 x 22	200 x 22	255 x 25
SIZE (mm)	A Horizontal	470	470	600
	B Vertical	650	650	690
	D Outlet (Ø)	125	125	125
	H Overall height	1,205	1,205	1,310
Bucket capacity (ℓ)		10	10	10
Standard weight (kg)		85	85	95

※ These specifications are subject to change without notice to improve performance.
※ The external dimensions in the table are subject to a tolerance of ±5 mm.

WORKTABLE ATTACHED BAG FILTER TYPE DUST COLLECTOR

MST Series

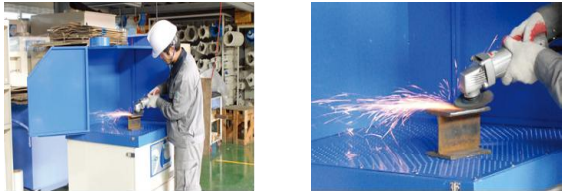
Workbench Integrated dust collector

COMPACT structure
that can utilize narrow space in the factory

- Sanding | Drilling
- Shearing | Mixing
- Polishing | Grinding
- Stonecutter

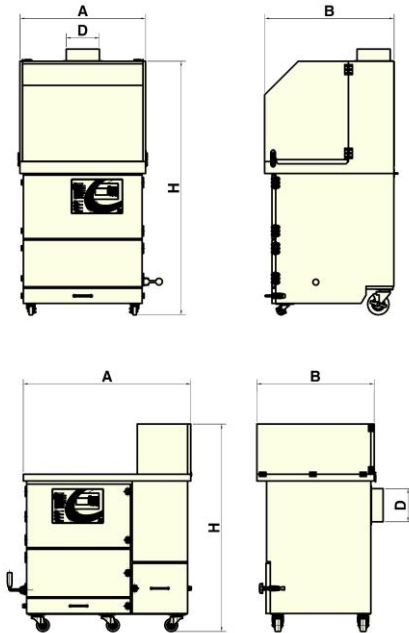


✓ Installation construction case



<Example of left and right opening and closing grinder operation>

✓ Standards



✓ Pros

- Worktable can be opened on both sides and top to process large objects
- Achieves high dust collection efficiency using a downward suction method
- Install the exhaust port at the top to minimize noise
- Equipped with wheels for easy movement and use

✓ Specs

TYPE		MST-200	MST-200CB
Power		220V Single phase, 220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)	
BLOWER	Air volume (m ³ /min)	60Hz: 25 50Hz: 21	25 21
	Static pressure (mmAq)	60Hz: 230 50Hz: 160	230 160
		MOTOR(kW)	1.5
	Filter	Size (WxL)	420 x 200
Quantity		16	16
Filtration area (m ²)		3.2	3.2
SIZE (mm)	A Horizontal	750	1,000
	B Vertical	770	700
	D Outlet (Ø)	200	200
	H Overall height	1,585	1,260
Bucket capacity (ℓ)		11	46
Standard weight (kg)		145	165

※ These specifications are subject to change without notice to improve performance.
 ※ The external dimensions in the table are subject to a tolerance of ±5 mm.

- AP
- APR
- APC
- APS
- MS
- MSR
- SC
- NgC
- MST
- APD
- FC
- CHB
- OMC
- DMC
- LC
- ACT
- ACT
- ZF
- PCI
- NVFM
- ARM
- HOOD
- FILTER
- HOPPER
- CBF
- A/C
- CWS
- CYCLONE
- Environmental permits

DUST EXPLOSION SAFETY COLLECTOR

APD Series

Dust explosion safety countermeasure type dust collector



AIR PULSE JET Type Explosion-proof dust collector

Aluminum fume, fine powder
Aluminum light alloy | Titanium | Corn starch
Epoxy resin | Milk powder | Starch

✔ Designed to minimize the risk factors of dust explosions

- The APD SERIES is an explosion-proof dust collector that adopts an antistatic cartridge filter and a separate solenoid enclosure to remove dust with an air pulse and an explosion-proof motor to control the generation of sparks when the dust collector is running and minimize damage from possible explosions from the outside. When certified under CE ATEX explosion-proof standards, the dust collector is named the APX Series

✔ Electric box

- Depending on the operating conditions, explosion-proof electrical boxes or steel boxes are used, and flames are blocked by a sealed structure such as SEAL PACKING

✔ Blast vent

- In the event of a dust explosion within the dust collector, the explosive force could rupture the dust collector body, causing a secondary explosion and a major personal injury, so minimize the damage by directing and venting the explosive energy to a safe area (upper rear of the dust collector)

✔ Slide gate

- In the event of a fire caused by external flame penetration, the slide gate activates to prevent fire spread and protect the motor

✔ Backflow prevention damper

- In the event of a dust explosion inside the dust collector, prevent flames from escaping into the ductwork, protecting workers and equipment from a firestorm

✔ Digital controllers



- Equipped with a color LCD and soft-touch switches

- Interface: Standard mode is used for integration with external devices (PC, PLC, etc.)

- Error reporting: Displays error alarms and alarm history when abnormalities are detected

- Digital differential pressure, digital current, operational accumulation, and error status indicator functions

- Inverter-only controller: manual/automatic inverter control (optional)

Installation construction case



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



Epoxy resin dust collection



Aluminum fume collection

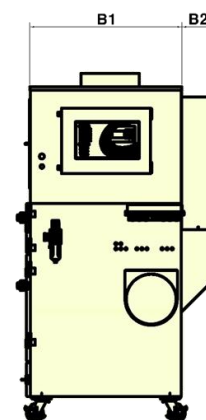
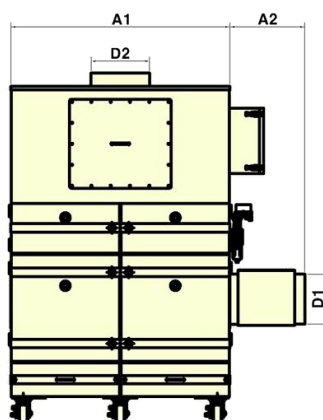
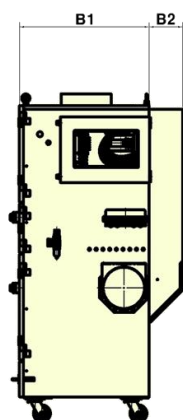
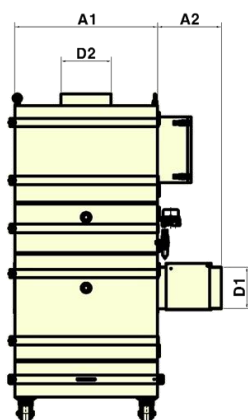


Aluminum light alloy dust collection



3D printer processing dust collection

Standards



Specs

TYPE		APD-100	APD-200	APD-300	APD-500	APD-750	APD-1000	APD-1500	APD-2000	APD-3000	
Power		220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)									
BLOWER	Air volume (m ³ /min)	60Hz	12	25	40	65	80	100	160	200	300
		50Hz	10	21	33	54	67	83	133	167	250
	Static pressure (mmAq)	60Hz	230	230	230	230	300	300	300	300	250
		50Hz	160	160	160	160	208	208	208	208	174
MOTOR(kW)		0.75	1.5	2.2	3.7	5.5	7.5	5.5 x 2SET	7.5 x 2SET	11 x 2SET	
Filter	Size (WxL)	Φ145 x 500L x 75						Φ145 x 800L x 75		Φ165 x 800L x 75	
	Quantity	4	6	9	12	18	24	24	24	32	
	Filtration area (m ²)	7.5	11.25	16.88	22.5	33.75	45	72	100.8	134.4	
SIZE (mm)	A1 Horizontal	520	620	770	850	1,300	1,720	1,700	1,950	2,010	
	A2 Horizontal	300	340	380	380	450	500	520	620	720	
	B1 Vertical	545	645	795	775	925	925	975	1,025	1,275	
	B2 Vertical	150	150	200	200	200	200	400	450	450	
	D1 Inlet (Ø)	150	200	250	250	300	350	400	500	600	
	D2 Outlet (Ø)	150	200	300	300	350	400	450	550	650	
	H Overall height	1,605	1,765	1,905	1,955	2,180	2,055	2,325	2,390	2,515	
Bucket capacity (ℓ)		16	45	75	82	65 x 2	82 x 2	107 x 2	74 x 3	74 x 3	
Standard weight (kg)		165	300	380	450	560	650	820	1,200	1,650	

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FUME COLLECTOR

FC Series

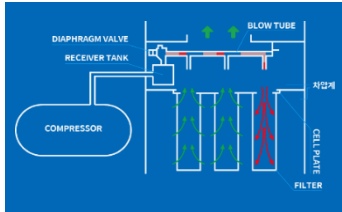
Fume collector

Air pulse type fume collector for a wide range of applications from laser/plasma processing machine to general welding and cutting

Laser processing machine | Plasma processing machine
 Cast iron and cast steel gouging work
 Work that generates fume, such as welding and metal cutting
 Optimized for fume capture with a large filtration area relative to the air volume



✓ **Efficient filter cleaning**



- Automatic filter cleaning
 Automatically detects filter clogging (above a set differential pressure threshold) and cleans it (Requires compressed air in the workshop)
- Settings can be adjusted to suit site-specific conditions
- Minimizes filter damage, thereby extending its service life

✓ **Digital controllers**



- Equipped with a color LCD and soft-touch switches
- Interface: Standard mode is used for integration with external devices (PC, PLC, etc.)
- Error reporting: Displays error alarms and alarm history when abnormalities are detected
- Digital differential pressure, digital current, operational accumulation, and error status indicator functions
- Inverter-only controller: manual/automatic inverter control (optional)

✓ **Turbo blower**



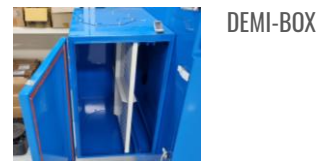
- We produce high-volume, fixed pressure, low-vibration, low-noise turbo blowers using precision molds

✓ **Flame arrestor (Optional)**



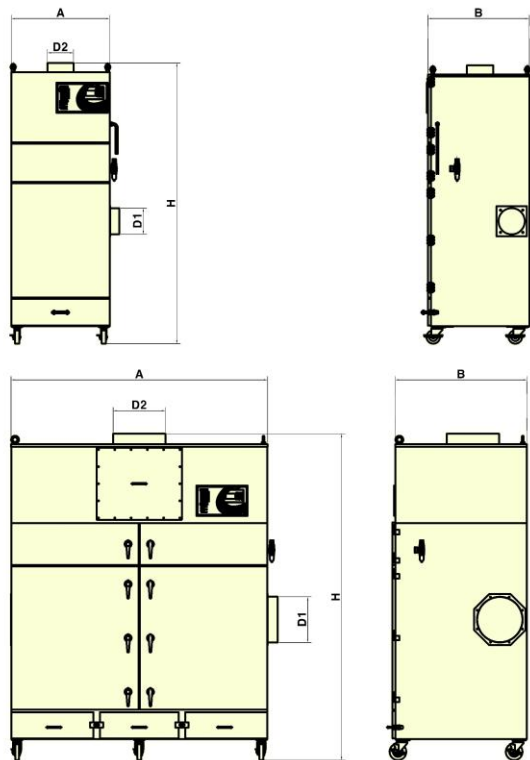
- Used in processes that generate sparks—such as cutting, grinding, and machining—as a pretreatment device that captures and settles sparks before they reach the filter

✓ **ELIMINATOR (optional)**



- A pretreatment device that primarily settles dust that is sucked directly into the dust collector during spark generation to prevent fire

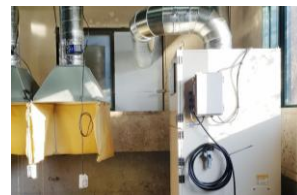
Standards



Installation construction case



Capture fume generated during laser processing



Collecting dust from painting operations



Capture fume generated during later sheet metal processing



Welding fume capture



Capture fume generated during plasma laser processing



Dust collection from crushing operations

Specs

TYPE		FC-100	FC-200	FC-300	FC-500	FC-750	FC-1000	FC-1500
Power		220V single phase, 220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)			220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)			
BLOWER	Air volume (m ³ /min)	60Hz: 12 50Hz: 10	60Hz: 25 50Hz: 21	60Hz: 40 50Hz: 33	60Hz: 65 50Hz: 54	60Hz: 80 50Hz: 67	60Hz: 100 50Hz: 83	60Hz: 160 50Hz: 133
	Static pressure (mmAq)	60Hz: 230 50Hz: 160	60Hz: 230 50Hz: 160	60Hz: 230 50Hz: 160	60Hz: 230 50Hz: 160	60Hz: 300 50Hz: 208	60Hz: 300 50Hz: 208	60Hz: 300 50Hz: 208
	MOTOR(kW)	0.75	1.5	2.2	3.7	5.5	7.5	5.5 x 2SET
	Filter	Size (WxL)	Φ165 x 800L					Φ165 x 1,000L
	Quantity	6	9	12	18	24	24	32
	Filtration area (m ²)	25.2	37.8	50.4	75.6	100.8	126	168
SIZE (mm)	A Horizontal	620	750	850	1,340	1,700	1,950	2,010
	B Vertical	645	775	775	895	920	1,025	1,125
	D1 Inlet (Ø)	150	200	250	250	300	350	400
	D2 Outlet (Ø)	150	200	300	300	350	400	450
	H Overall height	2,075	2,140	2,180	2,270	2,395	2,560	2,585
Bucket capacity (ℓ)		25	60	80	55 x 2	85 x 2	60 x 3	70 x 3
Standard weight (kg)		210	280	350	460	650	860	1,150

※ These specifications are subject to change without notice to improve performance. ※ The external dimensions in the table are subject to a tolerance of ±5 mm.

WELDING FUME COLLECTOR

CHB Series

Welding fume collectors

Structure that emphasizes powerful suction power, easy movement, and operator convenience

ARC welding | CO2 welding | MAG welding
Cutting work | Specialty welding

Tasks that result in FUME



✓ Flexible arms

- By adopting a flexible arm that can be freely positioned and fixed in place, it directly sucks and removes fumes from the source, protecting the health of workers and improving work efficiency ($\Phi 150 \times 2\text{m}/3\text{m}/4\text{m}$)

✓ Powerful suction

- Equipped with a turbo blower
- High safety due to adoption of overload protection circuit to prevent motor damage

✓ Mobility

- Easy to move with large wheels and carrying handle

✓ Filter structure



1st Demister filter

- PANEL TYPE demister filter filters sparks and coarse particles that are introduced with fume gases during welding operations
- The filter media is made of stainless steel and can be cleaned and reused, making it economical



2nd H.E.P.A filter

- MEDIA TYPE MAIN filter uses high-purity FELT filter media on the surface to completely capture more than 99.74% of harmful fine particles with a particle diameter of $0.3\mu\text{m}$ (by HOT DOP TEST), and prevents deterioration of dust collection performance from breakage due to the thick filter layer and high tensile strength of the media (Test report issued by Korea Yarn and Fabric Testing Institute)



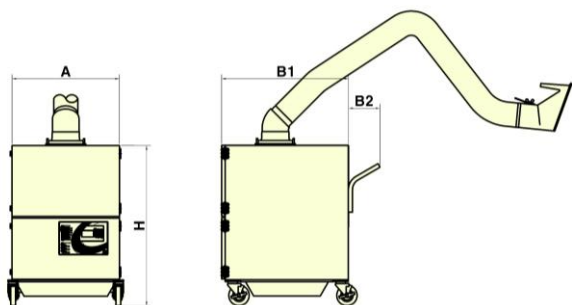
3rd Order ACF filter (optional)

- Odor removal features
- ACF filter is an active agent composed of polycrystalline structure polymer compounds, with high adsorption rate, high strength, not easily weathered, does not form secondary pollution, resistant to acid and alkali, and has a long service life

✓ Dust collection method

- Pull out the filter and flip it over to the other side to shake it out, as dust accumulates between the filter media

✓ Standards



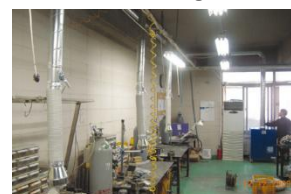
✓ Installation construction case



MAG Welding

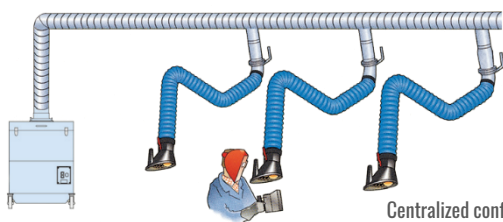


ARC Welding



CO2 Welding

✓ Options



Centralized configuration allows the application to multiple sources

- TWO ARM attachment and STAND type depending on working conditions
- Selectable odor removal by ACF filters (optional)
- Adapting FUME COLLECTOR based on working conditions

✓ Specs

TYPE		CHB-200	CHB-300	CHB-500
Power		220V Single Phase, 220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)		220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)
BLOWER	Air volume (m ³ /min)	25	40	65
		21	33	54
	Static pressure (mmAq)	230	230	230
		160	160	160
MOTOR(kW)		1.5	2.2	3.7
Filter	1st Demister filter	610 x 610 x 20	610 x 610 x 20	610 x 610 x 20
	2nd H.E.P.A filter	610 x 610 x 292	610 x 610 x 292	610 x 610 x 292 (SC)
	Filtration area (m ²)	19.3		
	Geometry	Media type cartridge		
SIZE (mm)	A Horizontal	670	670	670
	B1 Vertical	790	790	840
	B2 Vertical	200	200	200
	H Overall height	1,000	1,000	1,050
Flexible arms	Length/quantity	2m x 1SET	3m x 1SET	3 meters x 2SET (for 2 people)
	Diameter (Φ)	160	160	185
Standard weight (kg) (with filters, arms)		160	160	185

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OILMIST COLLECTOR

OMC Series

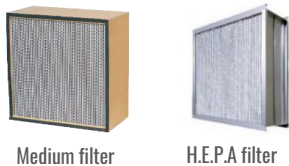
Oil mist Dust collector

Centralized dust(mist) collector optimized
for oil mist applications

Machining center | Automatic lathe | Hobbing machine
Tapping machine | Discharge machine | Spray painting
Application of heteromorphic agent



✔ Three-layer filter structure



Medium filter

H.E.P.A filter



ACF filters (optional)

- Equipped with a triple filter, it perfectly captures everything from mist to fume
- The slide-in filter design allows for easy replacement by any user
- Equipped with both H.E.P.A. and medium filters to capture particles smaller than 0.3 μm with up to 99.997% efficiency
- Can add odor removal function (ACF filter option)
- An activated carbon fiber filter (ACF Filter) is an active body composed of a polycrystalline structure polymer compound. It has high adsorption rate and strength, so it is not easily weathered, does not form secondary salts, and is acid-resistant, alkali resistance, and has long filter life

✔ Centralized management system

- If there are multiple mist-generating machines, centralized collection is possible, making management and maintenance convenient
- OMC-N models can be operated continuously for optimal operation according to the working environment

✔ DOWN FLOW method

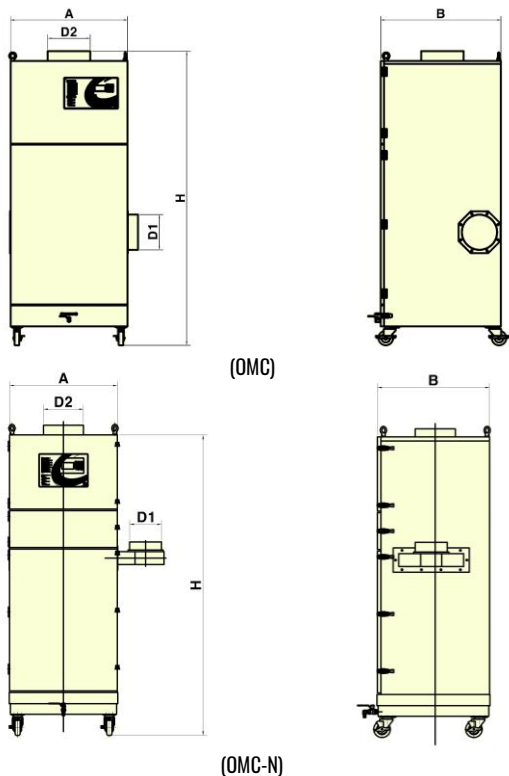
- The inhaled mist falls naturally by the DOWN FLOW, and the mist is condensed inside the filter, collected at the bottom of the filter and drained, allowing continuous operation without secondary scattering

✔ Digital controllers



- Digital control panel: soft LED touch switch method
- Built-in external operation (remote/interlocking) control function: Provides default terminal block and one-touch setting change
- Check operating status with real-time current and voltage display
- Error status indication (undervoltage, overcurrent, etc.)

Standards



Installation construction case



Specs

TYPE		OMC-BX							OMC-N							
		OMC-100	OMC-200	OMC-300	OMC-500	OMC-750	OMC-1000	OMC-1500	OMC-100N	OMC-200N	OMC-300N	OMC-500N	OMC-750N	OMC-1000N	OMC-1500N	
Power		220V single phase, 220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)			220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)				220V single phase, 220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)			220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)				
BLOWER	Air volume (m ³ /min)	60Hz	12	25	40	65	80	100	160	12	25	40	65	80	100	160
		50Hz	10	21	33	54	67	83	133	10	21	33	54	67	83	133
	Static pressure (mmAq)	60Hz	230	230	230	230	300	300	300	230	230	230	230	300	300	300
		50Hz	160	160	160	160	208	208	208	160	160	160	160	208	208	208
MOTOR(kw)		0.75	1.5	2.2	3.7	5.5	7.5	5.5 x 2 SET	0.75	1.5	2.2	3.7	5.5	7.5	5.5 x 2 SET	
Filter	1st Pre filter (Model N: Demister filter)	610 x 610 x 50	610 x 610 x 50	610 x 760 x 50	610 x 760 x 50	610 x 610 x 50	610 x 760 x 50	610 x 760 x 50	610 x 760 x 50	610 x 610 x 20	610 x 610 x 20	610 x 760 x 20	610 x 760 x 20	610 x 760 x 20	610 x 760 x 20	610 x 760 x 20
	2nd Vee bag filter	610 x 610 x 300 x 10p	610 x 610 x 560 x 10p	610 x 760 x 560 x 12p	610 x 760 x 560 x 12p	610 x 610 x 10p x 2	610 x 760 x 560 x 12p x 2	610 x 760 x 560 x 15p x 2	610 x 610 x 300 x 10p	610 x 610 x 560 x 10p	610 x 760 x 560 x 12p	610 x 760 x 560 x 12p	610 x 760 x 560 x 15p	610 x 760 x 560 x 12p	610 x 760 x 560 x 15p	
	3rd H.E.P.A filter (N models: Medium filter)	610 x 610 x 75	610 x 610 x 150	610 x 760 x 150	610 x 760 x 292	610 x 610 x 292 x 2	610 x 760 x 292 x 2	610 x 760 x 292 x 2	610 x 610 x 292 x 75	610 x 610 x 150	610 x 760 x 150	610 x 760 x 292	610 x 760 x 292	610 x 760 x 292 x 2	610 x 760 x 292 x 2	
SIZE (mm)	A Horizontal	670	670	820	820	1,345	1,650	1,650	670	670	820	820	950	1,500	1,500	
	B Vertical	735	775	845	845	925	975	1,025	695	695	795	795	825	945	1,025	
	D1 Inlet (Ø)	150	200	250	250	300	350	400	150	200	250	250	300	350	400	
	D2 Outlet (Ø)	200	250	300	300	350	400	450	198	248	298	298	348	400	448	
	H Overall height	1,310	1,840	1,895	2,065	2,455	2,370	2,365	1,400	1,845	1,970	2,140	2,260	2,300	2,420	
Standard weight (kg)		120	165	280	305	680	720	760	120	215	280	305	500	590	645	

※ These specifications are subject to change without notice to improve performance. ※ The external dimensions in the table are subject to a tolerance of ±5 mm.

MIST CLEANER

DMC Series

Mist cleaner

Utility model No. 20-0484737

Utility model No. 20-0484735

**Compact structure
to take advantage of tight spaces**

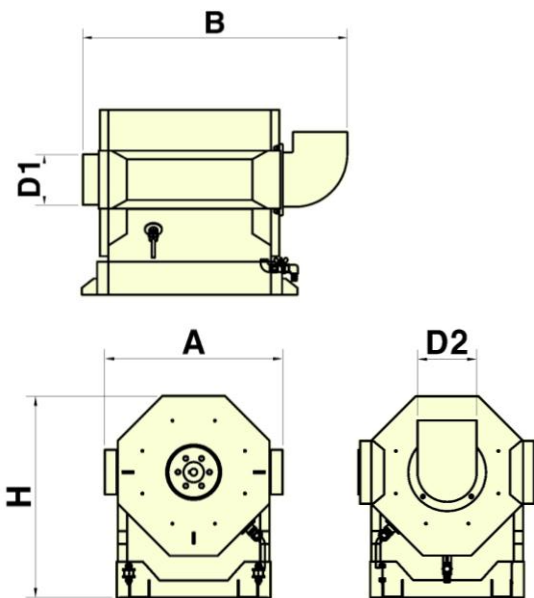
Machining center | Automatic lathe | Milling processing
Hobbing machine | Tapping machine | Electric discharge machine
Spray painting operation | Application of heteromorphic agent



✔ **Compactly designed mist cleaner**

- Can be installed in tight or elevated spaces, such as on top of machine tools
- Smaller size for better space utilization
- Ultra-compact, silent mist cleaner for indoor work
- Maximize mist capture efficiency with an AFTER FILTER (optional)

✔ **Standards**



✔ **Maximize capture efficiency and ease of use**

- Specially constructed filter captures 99.7% of mist
- Tool-free filter replacement requiring no special skills
- Simple to maintain

✔ **Specs**

TYPE		DMC-50	DMC-100	DMC-150	DMC-200
Power		220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)			
BLOWER	Air volume (m ³ /min)	7	12	15	20
		6	10	13	17
	Static pressure (mmAq)	150	150	150	150
		104	104	104	104
MOTOR(kW)	0.4	0.75	1.1	1.1	
SIZE (mm)	A Horizontal	480	480	480	480
	B Vertical	670	670	780	780
	D1 Inlet (Ø)	125	125	150	150
	D2 Outlet (Ø)	160	160	160	160
	H Overall height	545	545	545	545
Standard weight (kg)		40	45	58	60

※ These specifications are subject to change without notice to improve performance.
 ※ The external dimensions in the table are subject to a tolerance of ±5 mm.

FUME ODOR COLLECTOR

LC Series

Deodorizing dust collector

A small amount of odor removal dust collector using activated carbon (purification of harmful gases)

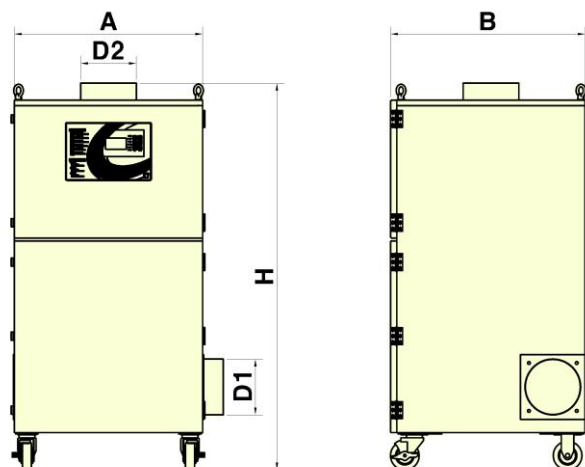
Laser engraving | marking, lead work
Chemical and pharmaceutical laboratories & institutes
Electrical and electronics assembly lines
Small amounts of volatile organic compounds (VOCs)
For capturing other small amounts of odor



✓ Pros

- Adoption of slide method for easy filter replacement
- The three-layer filter structure effectively captures fine dust and significantly extends the lifespan of carbon filters
- Long life and high efficiency due to the combination of non-woven fabric and granular activated carbon
- Equipped with a soft-touch electronic panel, it has excellent dust proof and water proof performance

✓ Standards



✓ Specs

TYPE		LC-50	LC-100	LC-200	
Power		220V single phase, 220V/380V 3 phase 60Hz, 440V(Optional), 50Hz(Optional)			
BLOWER	Air volume (m ³ /min)	60Hz	7	12	25
		50Hz	6	10	21
	Static pressure (mmAq)	60Hz	210	230	230
		50Hz	146	160	160
MOTOR(kW)		0.55	0.75	1.5	
1st pre filter		400 x 500 x 20	610 x 610 x 20	610 x 610 x 20	
2nd filter		400 x 500 x 50 Rectangular cartridge	610 x 610 x 75 H.E.P.A	610 x 610 x 150 H.E.P.A	
3rd carbon filter		400 x 500 x 50H x 2	610 x 670 x 50H x 2	610 x 670 x 50H x 4	
SIZE (mm)	A Horizontal	450	670	670	
	B Vertical	525	695	695	
	D1 Inlet (Ø)	100	150	200	
	D2 Outlet (Ø)	100	200	200	
	H Overall height	840	1,060	1,375	
Standard weight (kg)		70	140	200	

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※ The external dimensions in the table are subject to a tolerance of ±5 mm.

ACTIVATED CARBON TOWER

ACT Series

Adsorption tower / Activated carbon

For odor removal using large amounts of activated charcoal dust collector (to clean up harmful gases)

Volatile organic compounds and gases (VOCs), NOx, and SOx (optional)
 Adsorbed contaminants: H2S, SO2, CH3SH, NO3, some animal husbandry odors, etc

Chemical plant | Paint | Coating plant | Printing solvent | Plastic
 Extraction process | Fermentation process | Food industry | Leather factory
 Adsorbent type: activated carbon, activated alumina, etc



✔ **Pros**

- Activated carbon is effective at adsorbing organic vapors
- Broadly adsorbs all solvents with low boiling points
- Small footprint compared to processing capacity

✔ **What is activated carbon**

- Activated carbon is a product obtained by high degree of activation of carbon-containing materials as raw materials, and its structure is an aggregate of unstructured carbon with a large internal surface area connected by well-developed micropores and countless micropore passages, and is a non-polar adsorbent and a product with excellent physical and chemical stability

✔ **Selecting activated carbon**

- There are several types of activated carbons such as pelletized, granular, powdered, and impregnated activated carbon, and the activated carbon is selected and designed to match the gas properties of each business site
- The gas is designed to remain in the activated carbon for at least 1 second, and the velocity of the activated carbon passing through the absorption tower is designed to be 0.5 m/sec or less if possible

✔ **What is adsorption tower**

- This is a device designed to remove various organic gases and odors through absorption. It is a facility that removes gases with strong absorption power through the free bonding of atoms on the solid surface composed of molecular layers and the chemical bonding of gases.

✔ **Types of activated carbon**



Pelletized activated carbon



Granular activated carbon



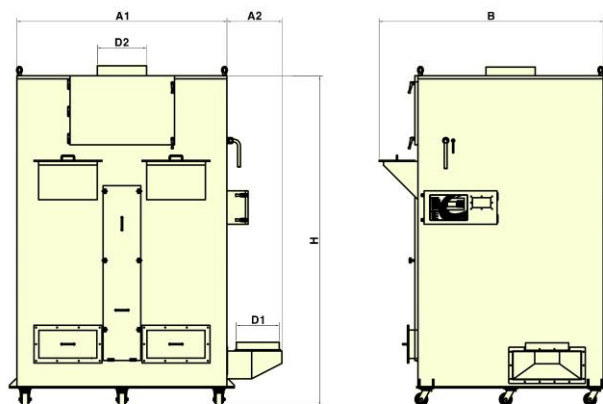
Powder activated carbon

- Pelletized activated carbon is a product produced by extruding under high pressure and is used for high-concentration gases such as painting, drying facilities, and solvent recovery facilities due to its low pressure loss and high iodine value
- Granular activated carbon is the most widely used activated carbon in industry because it has a relatively large surface area, and waste activated carbon is regenerated and reused
- Powder activated carbon is mainly used for decolorization, deodorization, and removal of bad tastes and impurities from liquid materials, making it suitable for water treatment.
- Impregnated activated carbon is a new type of activated carbon that enhances physical and chemical adsorption and selective adsorption by attaching chemical reactions and catalytic substances to the pores of ordinary activated carbon

✔ The importance of iodine

- Toluene concentration increases with time on the destruction curve and iodine adsorption decreases
- Activated carbon with high iodine should be used to increase the frequency of activated carbon replacement and may increase adsorption capacity

✔ Standards



✔ Installation construction case



Plastic container molding facility



Solvent mixing facilities



Gravure printing facilities



Recycling synthetic fiber waste



Steel pipe internal painting facility



Organic gas and odor removal

✔ Specs

TYPE			ACT-100	ACT-200	ACT-300	ACT-500	ACT-750	ACT-1000	ACT-1500	ACT-2000	
Power			220V single phase, 220V/380V 3 phase 60Hz, 440V(Option), 50Hz(Option)			220V/380V 3 phase 60Hz, 440V(Option), 50Hz(Option)					
BLOWER	Air volume (m ³ /min)	60Hz	12	25	40	65	80	100	160	200	
		50Hz	10	21	33	54	67	83	133	167	
	Static pressure (mmAq)	60Hz	230	230	230	230	300	300	300	300	300
		50Hz	160	160	160	160	208	208	208	208	208
MOTOR(kw)		0.75	1.5	2.2	3.7	5.5	7.5	5.5 x 2SET	7.5 x 2SET		
Adsorbent			Molded activated carbon								
Amount of activated carbon (kg)			150	275	450	650	900	1,000	1,300	1,700	
SIZE (mm)	A1 Horizontal		1,200	1,350	1,350	1,350	1,600	1,700	1,740	3,000	
	A2 Horizontal		240	290	340	340	390	445	600	790	
	B Vertical		1,115	1,215	1,615	1,615	1,815	1,815	1,815	1,815	
	D1 Inlet (Ø)		150	200	250	250	300	350	400	500	
	D2 Outlet (Ø)		200	250	300	300	350	400	450	550	
	H Overall height		1,555	1,910	2,155	2,510	2,515	2,750	3,180	2,970	
Standard weight (kg)			380	550	900	1,150	1,550	1,650	2,100	2,500	

※ These specifications are subject to change without notice to improve performance. ※ The external dimensions in the table are subject to a tolerance of ±5 mm.

SOLDERING SMOKE & FUME COLLECTOR

ZF Series

Lead smoke Odor collector

Duct-integrated low-noise,
high-efficiency lead fume collector

- Removing lead fumes and odors when soldering electrical and electronic components
- Laser marking - Removing the fumes from carving work
- Eliminate school, research, and lab chemical odors
- Polishing precious metals, removing etching dust
- Pharmacy blender dusting

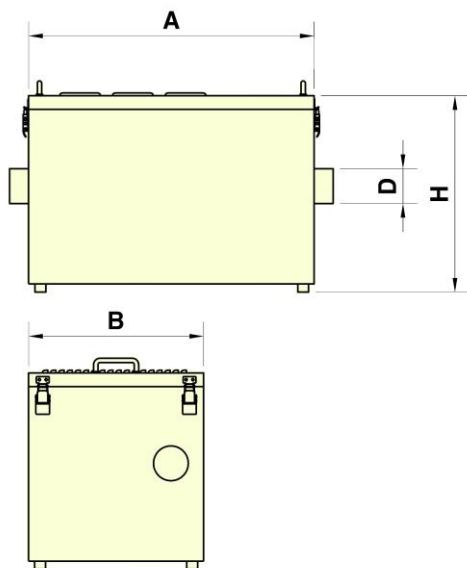


Utility model No. 0259803
Design registration No. 0259904
Design registration No. 0304592

✓ Pros

- Granular activated carbon perfectly adsorbs odor particles
- By adopting a triple filter, fine particles larger than 0.3µm are perfectly collected by 99.997%, extending the life of the activated carbon filter
- Aesthetically pleasing and compact enough to fit on your worktable
- Designed with complete noise suppression for quiet operation

✓ Standards



✓ Specs

TYPE		ZF-100	ZF-300	ZF-500	
Power		220V Single Phase 60Hz, 50Hz(Optional)			
BLOWER	Air volume (m ³ /min)	60Hz	2.5	4	8
		50Hz	2	3	7
	Static pressure (mmAq)	60Hz	26	40	68
		50Hz	18	28	47
MOTOR(kW)		60	220	500	
1st Pre filter		305 x 305 x 20			
2nd H.E.P.A filter		305 x 305 x 75			
3rd filter		Granular activated carbon			
SIZE (mm)	A Horizontal	370	460	525	
	B Vertical	325	325	325	
	D Inlet (Ø)	65	65	65	
	H Overall height	320	320	320	
Multi-reflective hose		Ø65 x 800L x 1	Ø65 x 1,000 L x 1	Ø65 x 1,000 L x 2	
Standard weight (kg)		10	12	20	
Noise dB(A)		35±2	48±2	55±2	

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CALCIUM CARBONATE AUTOMATIC FEEDER

PCI Series

Calcium carbonate automatic feeding device

Patent No. 10-1344133

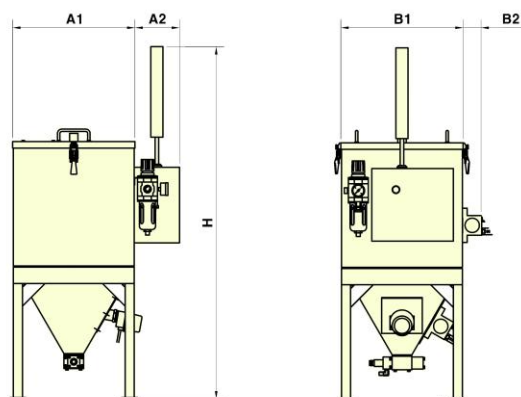
Calcium carbonate is automatically supplied and applied to the filter on the dust collector side that filters adhesive dust such as fume and fine dust generated by laser or plasma cutting and welding



✓ Pros

- Automatic calcium carbonate supply device to suppress fire occurrence and increase dust removal efficiency
- Remote deployment is possible, so you're not limited by location
- Level gauge and warning lights provide advance warning of low calcium carbonate levels
- It can be operated in conjunction with a dust collector and increase operator convenience by supplying the optimal amount according to the set value
- View the amount of calcium carbonate remaining when a load cell is attached (optional)

✓ Standards



✓ Calcium carbonate supply

- Amount of calcium carbonate in PCI-30: 20 kg
- Supply Delay time: 1 to 6 (max)
- Default values: Standby time 3 hours, operating time 3 seconds

Supply time	5sec	3sec
Average transport volume (kg)	0.30	0.16
Daily supply (based on 8 hours)	0.90	0.48
1 sachet of calcium carbonate time spent	23 days	42 days

✓ Specs

TYPE	PCI-30	
Power	220V Single phase DC 24V	
Pressure (kg/cm ²)	5 - 6	
Air hose (Φ)	8	
SUCTION connecting hose (mm)	16	
SIZE (mm)	A1 Horizontal	405
	A2 Horizontal	150
	B1 Vertical	405
	B2 Vertical	120
	H Overall height	855

※ These specifications are subject to change without notice to improve performance.
 ※ The external dimensions in the table are subject to a tolerance of ±5 mm.

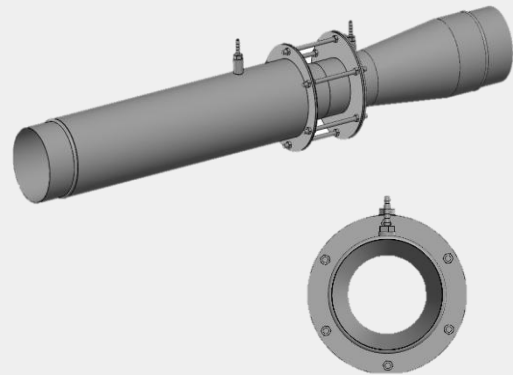
- AP
- APR
- APC
- APS
- MS
- MSR
- SC
- NGC
- MST
- APD
- FC
- CHB
- OMC
- DMC
- LC
- ACT
- ZF
- PCI
- NFM
- ARM
- HOOD
- FILTER
- HOPPER
- CBF
- A/C
- CWS
- CYCLONE
- Environmental permits

NOZZLE-VENTURI FLOW METER : ISO 5167-3

NVFM Series

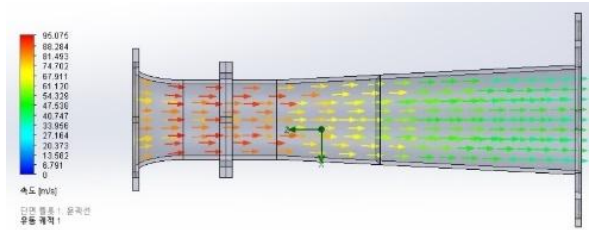
Differential nozzle-venturi flowmeter

It measures the pressure difference in front and behind the nozzle placed during fluid flow and calculates the flow rate. It is suitable for measuring the continuous flow rate of air flowing in the pipe.



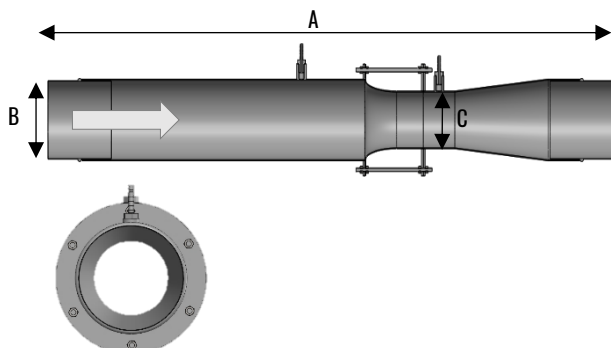
✓ Pros

- Compared to existing differential pressure flow meters such as pitot tube, orifice, or general nozzle types, it is resistant to contamination by dust mixed in the fluid and minimizes pressure loss, making it optimal for measuring the flow rate of a dust collector
- ISO 5167-3 High-durability structure with precision nozzle machining and venturi connection welding
- Increased precision compared to pitot tubes, no clogging of pressure measurement holes
- Reduces pressure loss by approximately 65% compared to orifice flow meters
- Avoids vortex zones downstream compared to conventional nozzle flowmeters to prevent dust deposition
- $\Phi 100$, $\Phi 150$, and $\Phi 200$ nozzles as standard for different flow ranges Non-standard specifications can be customized



[CFD analysis result: no vortex phenomenon]

✓ Standards



✓ Specs

TYPE		NFM-100	NFM-150	NFM-200
Flow range (m ³ /min)		4 - 18	10 - 42	18 - 75
Nozzle differential pressure (mmAq)		18 - 300		
Flow velocity range (m/s)		10 - 40		
SIZE (mm)	A	900	1,350	1,800
	B	100	150	200
	C	70	105	140

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HOOD

FLEXIBLE ARM Series

Hood/duct integrated/ARM that can be moved freely according to the work environment

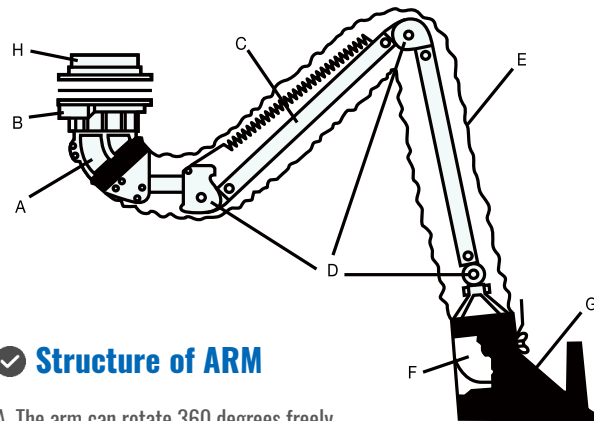


✓ Pros

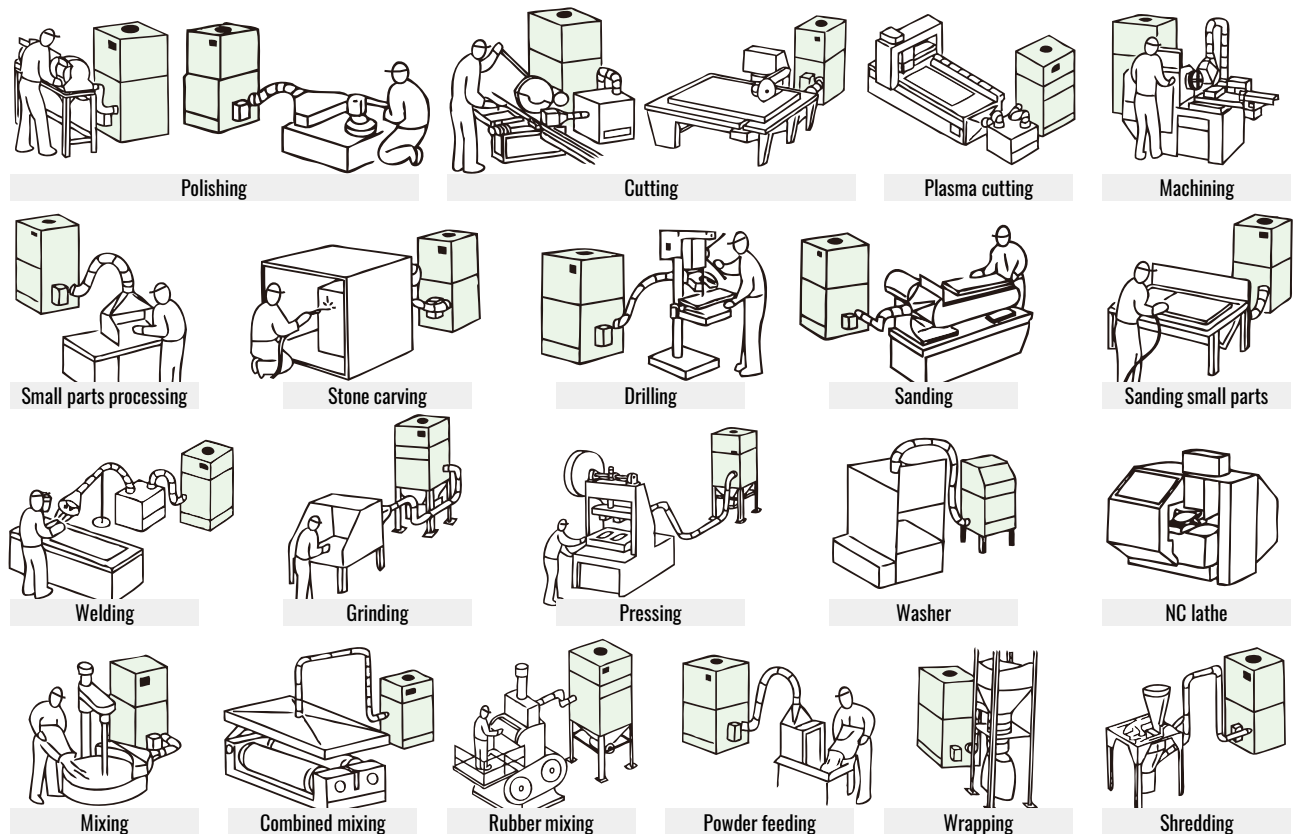
- Applied to places where it is difficult to install HOOD and DUCT on the target machine
- DAMPER attached to ARM HOOD for adjustable air volume
- Move freely and lock right where you want, no wobble

✓ Structure of ARM

- A. The arm can rotate 360 degrees freely
- B. Flange support
- C. Internal support
- D. Preset settings on disk can be readjusted as needed
- E. 160 mm diameter PVC hose with fiberglass reinforcement (maximum operating temperature 70 degrees)
- F. Dampers are securely attached
- G. Oval polycarbonate ester hood, 250 mm x 300 mm.
- H. No counter flange fan required for ventilation ducts with diameter of 150/160mm



Process-specific hood design examples



FILTER

Cartridge filter

✓ Cartridge filter



- Universal filters for general dry dust
- A filter that expands the filtration area by processing the filter media into a cartridge shape through uniform folding
- Fits PULSE JET type dust collectors and is easily removable
- 1-10µm fine dust removal efficiency of over 95%, excellent air permeability
- Choose water repellent, flame retardant, and static dissipation options based on your workplace application

✓ Membranes cartridge-type filters [Membrane Filter]



- 99.874% dust collection efficiency
- The PTFE that makes up the membrane is highly resistant to temperature fluctuations from -250°C to +260°C
- Conventional filter bags have a continuously increasing pressure loss due to dust deposition and adhesion over long periods of operation, but membranes can be operated under a constant pressure loss state because they are surface-filtered

✓ Aluminum cartridge type electrostatic filters [Static Control Filter]



- Filters used to prevent dust explosions caused by dust static
- Reduces the likelihood of fires and explosions due to static electricity generated by pollutant dust
- Choose flame retardant options based on your workplace environment

✓ Cartridge filter code names by model

TYPE	General (PET)	Electrostatic	Water repellency	Membranes	Flame retardant
APK200	PN44	PA44	PW44	PM44	PF44
AP100 to AP500	PN45	PA45	PW45	PM45	PF45
AP750 to AP1500	PN48	PA48	PW48	PM48	PF48
AP2000 to AP3000	PN68	PA68	PW68	PM68	PF68
FC100 to FC750	PN68	PA68	PW68	PM68	PF68
FC1000 to FC1500	PN610	-	PW610	PM610	PF610

Bag filter

✓ Bag filter



- Universal filters for general dry dust
- Good air permeability, suitable for contaminated dust with relatively large particle size from contaminant sources, high durability

✓ Cotton bag-filter



- Capture and recover valuable dust from precious metal processing
- Extremely high recovery rates with no residual solids after combustion

✓ Vee bag filter

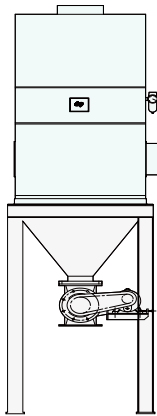


- Horizontal, fixed mounting makes filter replacement relatively easy
- Captures oil and water particles larger than 1.0µm by adhesion
- Excellent capture capability with 0.3µm fine dust removal efficiency of 96.24%
- Effective for removing water-soluble and non-water-soluble mists

DUST DISCHARGE EQUIPMENT

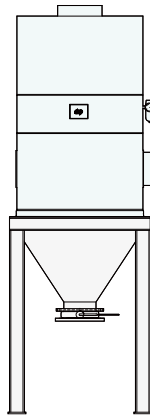
HOPPER Series

Dust discharge device
Automated line or large amount of automatic dust discharge system



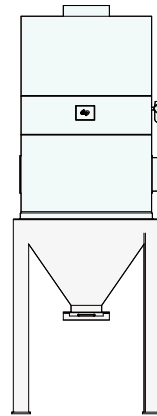
✓ **ROTARY VALVE TYPE**

A method that continuously discharges a large amount of dust to increase dust treatment efficiency and thus dust collection efficiency



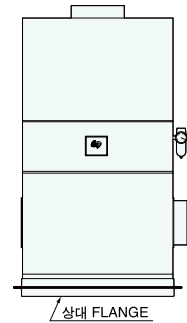
✓ **BUTTERFLY VALVE TYPE**

Sealed and free of dust and air leakage, and can be discharged with ONE-TOUCH



✓ **SLIDE GATE TYPE**

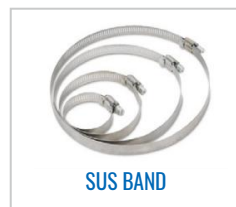
The collected dust is disposed of using a gunnysack or bag in a convenient way for periodic management



✓ **BIN MOUNT TYPE**

A compact method for collecting dust by directly mounting it on the target machine

OPTIONAL PARTS



AP
APR
APC
APS
MS
MSR
SC
NGC
MST
APD
FC
CHB
OMC
DMC
LG
ACT
ZF
PCI
NFM
ARM
HOOD
FILTER
HOPPER
GBF
A/C
CWS
CYCLONE
Environmental permits

Dust Collector System

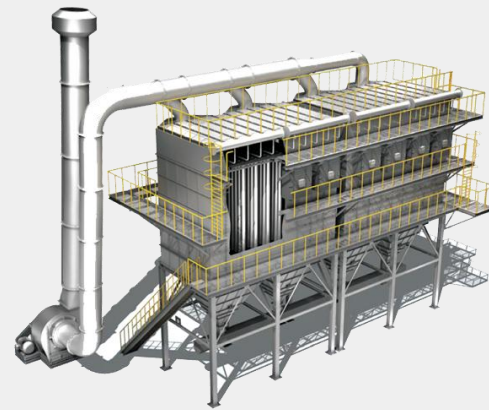
CBF Series

Filtered dust collectors

Customized filtration and dust collection device according to dust properties

The principle of the filtering device is to separate and capture the dust gas generated in the workplace by passing it through a filter material

Food manufacturing plant | Cement & ready mixed concrete
Fertilizer and feed workplace | Wood processing plant | Castings | Cast iron
Metalworking plant | Textile plant | Chemical plant | Pharmaceutical plant



✔ Applicable industries

- Workplaces with high specific gravity and dust loads (wood, cement, incinerators, pharmaceuticals)
- Workplaces that generate sticky dust (plastics, zinc hot-dip galvanizing)
- Non-ferrous metal melting and explosive dust generating workplaces (aluminum, magnesium)
- Dust-generating workplaces (casting, injection)
- Dust from coal and ash transportation (power plants, incinerators)
- Other workplaces that need workplace improvements

✔ Engineering design with design factors

- Selecting the optimal filtration rate for each dust
- Apply optimal updraft velocity
- Design considering dust loads
- Structural deformation to match dust viscosity
- Selecting the control speed for dust properties

✔ Responsible construction & maintenance

- Accurate inspection and production control
- Safety first priority management
Rapid construction and site management for customer satisfaction
- Customer-centered maintenance and support systems
- Immediate action and response

✔ Installation construction case



Pharmaceutical Cartridge CBF



Yeongnam branch OO industry



Vietnam installation CBF+AP



Polishing, shake out



Yeongnam branch OO industry



Non-ferrous metal melting CBF

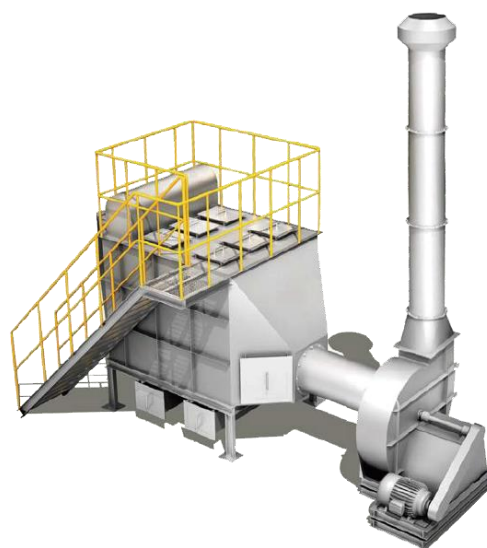
Activated Carbon Tower System

A/C Tower

Facilities by absorption

Maintains stable efficiency of filtration and dust collection equipment, and is a facility that catches odors through absorption

The facility by absorption reduces odor by passing and absorbing harmful gases through an adsorbent. There are various types of adsorbents, such as alumina and zeolite, and an adsorbent suitable for the gas properties is used



✔ **Applicable industries**

- For high concentration gases in painting, drying facilities, solvent recovery facilities, etc
- Rubber product molding plant, odors from mixing chemicals
- Workplaces with highly corrosive and acid-alkali odors (Sewage treatment plant, sludge regeneration company)
- Odors from printing and ink manufacturing (VOCs gas)

✔ **Selection criteria for Duclean's activated carbon**

- Design activated carbon selection for each site's gas properties
- Use activated carbon with design iodine content of 1000 mg/g or more
- The gas can remain on the activated carbon for at least 1 second and the velocity through the activated carbon is designed to be 0.5m/sec or less

✔ **Installation construction case**



Gravure printing organic solvents



Painting, drying facilities CACT



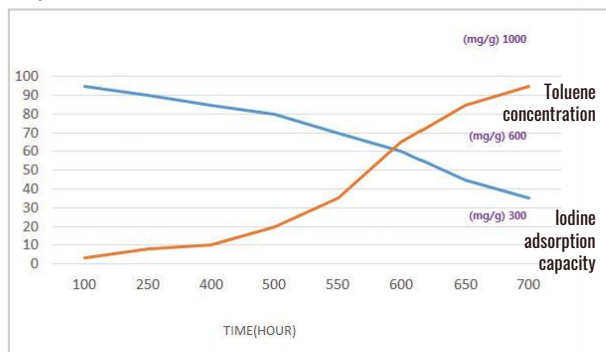
Printer volatile organic compounds



Chemical blending facility CACT

✔ **The importance of iodine**

- Over time on the breakdown curve toluene concentration increases, iodine adsorption decreases
- Activated carbon with high iodine should be used to increase the frequency of activated carbon replacement and may increase adsorption capacity



- AP
- APR
- APC
- APS
- MS
- MSR
- SC
- NGC
- MST
- APD
- FC
- CHB
- OMC
- DMC
- LC
- ACT
- ACT
- ZF
- PCI
- NFM
- ARM
- HOOD
- FILTER
- HOPPER
- GBF
- A/C
- CWS
- CYCLONE
- Environmental permits

Wet Scrubber System

CWS Series

Cleaning dust collectors



A dust collector to catch smell - odor and dust

Plating facilities | Acid washing and washing facilities | Film treatment facilities
Corrosive gas generation facilities | Zinc galvanizing | Heat treatment facilities
Water-soluble dust generating facilities (pharmaceutical, food)

✓ Pros

- Determine gas specific gravity and properties and select optimal absorption facilities
- 20m³/min to 2000m³/min diverse lineup
- Handles more than 90% of water-soluble dust, gases
- Corrosion-resistant materials available
- Maximize efficiency by installing catalyst-based facilities, biofilters, and absorption towers at the rear of the cleaning and collection device
- Capture odors and even dust
- Engineering design, including liquid gas ratio, nozzle selection, pump selection, etc

✓ What is a dust collector?

- The basic principle of the cleaning dust collector is to suck in harmful gases(water-soluble), spray cleaning water with a spray device to clean, ensure gas-liquid contact, use a filter with a large specific surface area, and use a demister to prevent the cleansing water from fly away



Capturing fine gases using venturi nozzles

✓ Applicable industries

- Locations with high gas specific gravity and odors (Food waste, sludge recycler)
- Steam and gases with high temperature and high water content (Heat treatment facilities, melting furnace facilities)
- Workplaces with highly corrosive and acid-alkali odors (Sewage treatment plant, sludge regeneration company)
- Plating and pickling, degreasing, and surface treatment plants (plating, PCB companies)

✓ Installation construction case



Lead melting dust secondary treatment



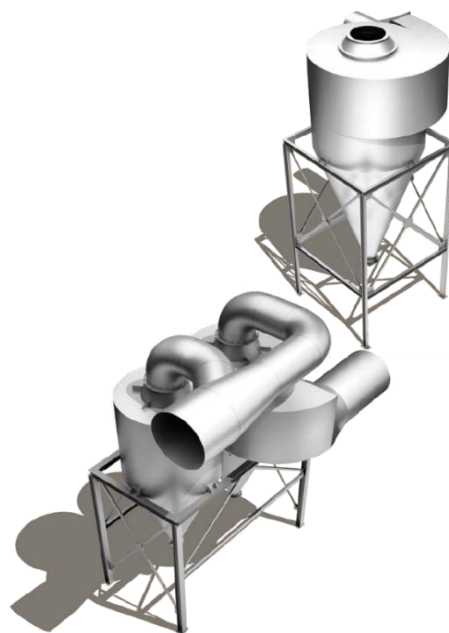
Eco-friendly paper research building



Health food manufacturing process

Cyclone System

Cyclone & Multi Cyclone Cyclone



Cyclones using centrifugal force for heavy dust

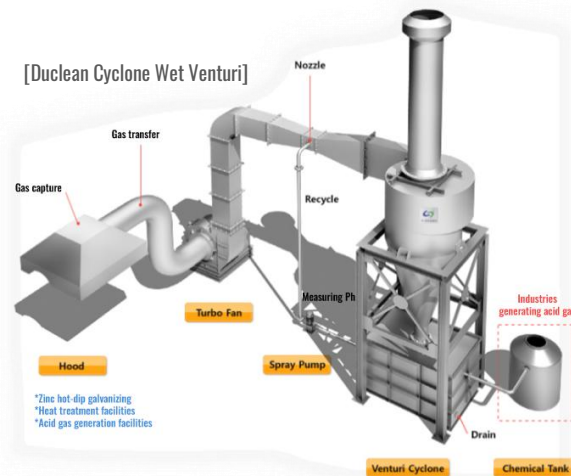
Polishing | Grinding | Powder conveying (Food, pharmaceutical)
Wood | Fiber | Kettle | Melting | Reflection furnace | Rotary furnace

✓ Pros

- Cyclones utilize centrifugal force and are more than 90% efficient for relatively high specific gravity dust, and for fine dust, the Bag Filter pretreatment facility in the form of an integrated or separate cyclone + bag filter is used (however, calculate the capacity by appropriately calculating the dust load).

✓ Applicable industries

- Handling high-density dust
- Low specific gravity dust is applied with high-efficiency cyclone with efficiency of over 80%
- Optimal pretreatment facilities for processes with high dust loads
- Cyclone + filter dust collection facility, separate type
- Venturi cyclone (wet) is suitable for high gas temperatures, fine dust



✓ Installation construction case



SAND BLAST pretreatment cyclone



Die casting venturi



Melting facility pretreatment cyclone



Abrasive, polishing facility

- AP
- APR
- APC
- APS
- MS
- MSR
- SC
- NGC
- MST
- APD
- FC
- CHB
- OMC
- DMC
- LC
- ACT
- ACT
- ZF
- PCI
- NFM
- ARM
- HOOD
- FILTER
- HOPPER
- CBF
- A/C
- GWS
- CYCLONE

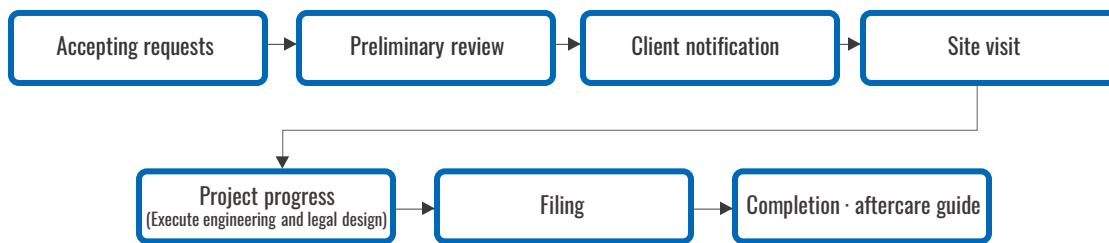
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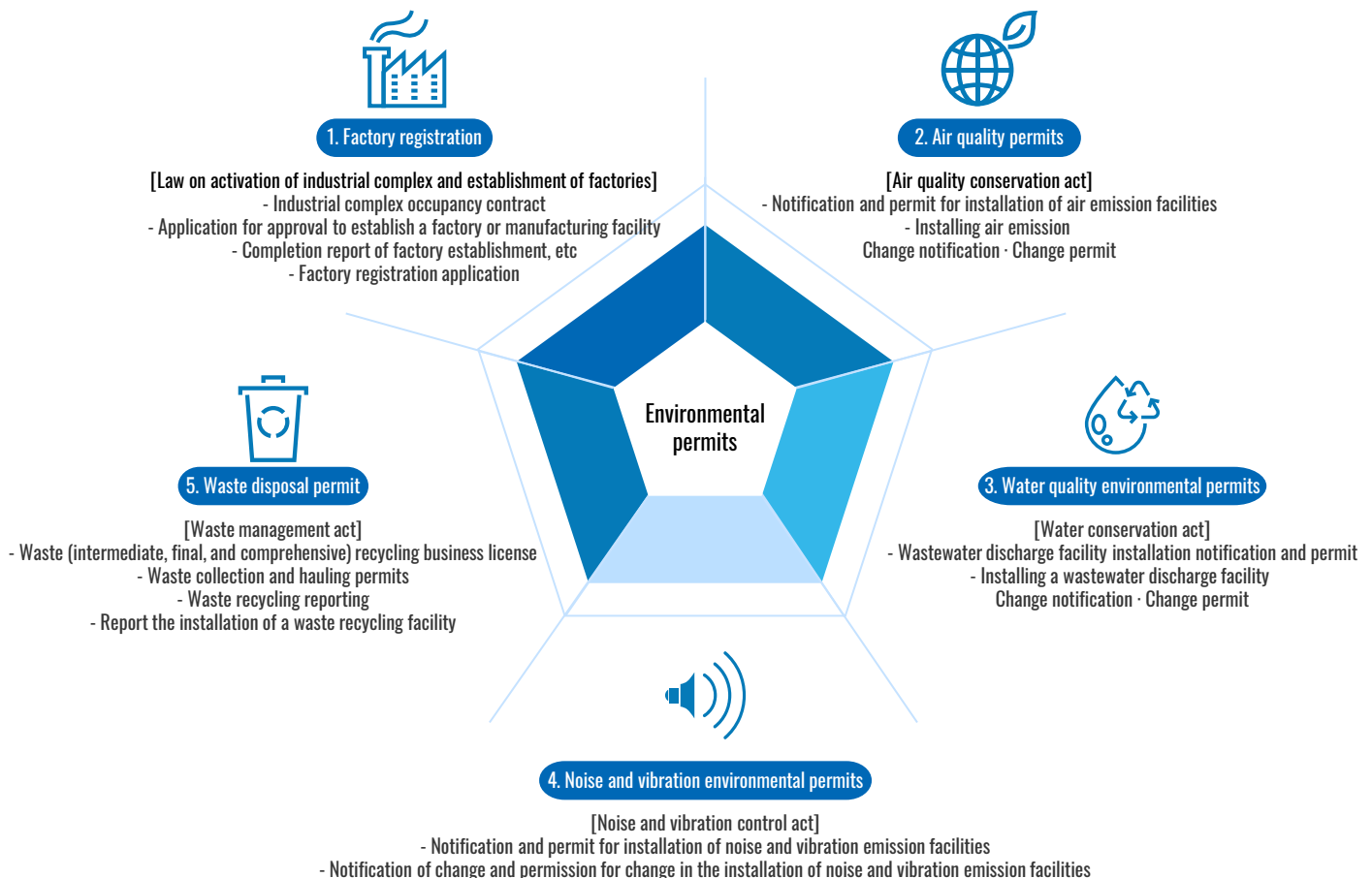
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We are doing our best to create a healthy, sustainable, and clean work environment by handling overall environmental permit and licensing work that takes into account the impact on the environment, such as permits and installation reports for environmental emission facilities and prevention facilities.

✔ Licensing process flow chart



✔ Performance tasks



✓ Atmospheric sector

1. Air in the production facility that falls under Appendix 3 of the Enforcement Rules of the Clean Air Conservation Act When constructing, expanding, or closing a facility that emits or prevents pollutants
2. If the raw materials or fuel used or the daily operating hours change

Penalty: Imprisonment for not more than 7 years or a fine of not more than 100 million won

Administrative enforcement: Suspension and closure orders

✓ Noise, vibration sector

1. In case of installing, expanding (more than 50/100), or closing (completely closed) noise and vibration emission facilities that fall under the Enforcement Regulations of the Noise and Vibration Control Act, Appendix 1 among production facilities

Penalty: Imprisonment for not more than 3 years or a fine of not more than 30 million won

Administrative enforcement: Suspension and closure orders

✓ Waste sector

A person who intends to engage in the business of collecting, transporting, recycling, or disposing of waste under Article 25 of the Waste Management Act (Waste Disposal Act)

[Classification of the waste disposal business and its operations]

1. Waste collection and transportation business: A business that collects and transport waste to recycling or disposal sites, or collect and transport waste for export
2. Waste intermediate disposal business: A business that intermediately disposes of waste by incineration, mechanical disposal, chemical disposal, biological disposal, or other methods recognized and notified by the Minister of the Environment as safe intermediate disposal of waste
3. Waste final disposal business: A business that is equipped with waste final disposal facilities and disposes of waste by landfill or other methods (excluding discharge into the sea)
4. Integrated waste disposal business: A business that combines intermediate and final disposal of waste with intermediate and final disposal facilities
5. Waste intermediate recycling business: A business that has waste recycling facilities and make intermediate processed waste
6. Waste final recycling business: A business that recycles intermediate processed wastes in accordance with the principles of recycling and compliance with Article 13(2) of the Waste Recycling Act, equipped with waste recycling facilities
7. Integrated waste recycling business: A business that has waste recycling facilities and provide both intermediate and final recycling

[Table 3] Types of waste disposal facilities

In case of change report of Article 29 (Change in the permit for waste disposal business) of the Enforcement Regulations of the Waste Management Act

1. Intermediate disposal facility | A. Incinerators, mechanical disposal, chemical disposal, biological disposal
2. Final disposal facility | A. Landfills, and other facilities that the Minister of the Environment has recognized and notified as capable of providing safe final disposal of waste
3. Recycling facility | A. Mechanical, chemical, and biological recycling facilities, cement kilns, melting furnaces, calcination and carbonization facilities, aggregate processing facilities, and pharmaceutical manufacturing facilities, incineration heat recovery facilities and other facilities that are recognized by the Minister of the Environment as capable of safely recycling waste

Penalty: imprisonment for not more than seven years or a fine of not more than \$50 million

Administrative penalties: business suspension and license revocation / closure order

✓ Factory registration

Article 13 Approval of factory establishment, application for completion of factory, application for factory registration (Act on industrial clustering and factory establishment)

A. In the case of establishing, expanding, or changing the type of business of a factory with a factory building area of 500 square meters or more, or changing the approved matters, approval from the mayor, county governor, or district head is required. The same applies when changing the approved matters. (Factory registration application: also possible for factories with less than 500 square meters)

[Approval application documents for establishing a factory, etc.]

When approving the establishment of a factory pursuant to Article 13 (1), the approval shall be deemed to have been granted if the mayor, county governor, or district head concerned has consulted with the head of the relevant administrative agency pursuant to the text of Paragraph 5 regarding the following permits, declarations, licenses, approvals, revocations, or abolishments of use for the factory and access road site.

1. Approval application documents such as factory establishment
2. Business plan
3. If you're using land and buildings that belong to someone else, documentation to prove you have permission to use them

Penalty: imprisonment for not more than 5 years or a fine of not more than 50 million won

✓ Wastewater sector

1. Discharge of wastewater that falls under Appendix 4 of the Enforcement Rules of the Water Environment Conservation Act in production facilities When installing, expanding (more than 50/100) or closing a facility
2. Wastewater discharge increases from the time of reporting
3. A new water pollutant is discharged from a wastewater discharge facility

Penalty: Imprisonment for not more than seven years or a fine of not more than 70 million won

Administrative enforcement: Suspension and closure orders

✓ Odor sector

1. Odor emissions corresponding to Appendix 2 of the Enforcement Regulations of the Odor Prevention Act among production facilities When installing, expanding, or closing facilities and prevention facilities
2. If you change the raw materials you use

Penalty: Imprisonment for not more than 3 years or a fine of not more than 30 million won

Administrative enforcement: Suspension and closure orders

Duclean, the standard in dust collectors



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