



AMANO Corporation

ENVIRONMENTAL SYSTEMS

GENERAL CATALOG

- Dust collectors
- Vacuum cleaners
- Mist collectors
- Pneumatic conveying systems

www.amano.co.jp/English/products/environment.html

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Design and specifications are subject to change without notice.



CAT-923606
K9907Y0.5-2025.8

Using engineering to the max to solve eco-issues
and problems from Japan to the world!

Cleaner, faster, with more satisfaction.

Amano has been meeting customer production plant needs since 1951 when it first started working on environmental issues. We can provide continual support for ever-evolving production plant engineering since we continuously upgrade and refine our tech skills.

Our production engineering is known worldwide as the No. 1 catalyst for Japanese craftsmanship. We do our part by helping to lower labor accidents and reduce accidents!

Our work doesn’t end there! We also make tech breakthroughs that precisely capture market and social needs such as by improving work efficiency, boosting production and removing toxic substances to continuously produced products that are just what the customer wants!

Amano is also currently enlarging its playing field to include not only Japan but the rest of the world as well.

High-level environmental tech fostered in Japan to all types of factories the world over.

Total engineering to environmental issues confronting plant management.

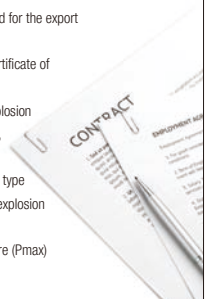
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**We will exchange confirmatory notes after the business discussion below.
Please contact our dealer for more information.**

- A "product export application confirmatory note" is required for the export business discussion.
- Please inquire to our company sales representative if a certificate of non-applicability is required.
- A "Consultation confirmatory sheet" is required on dust explosion pressure diffusion type dust collectors & vacuum cleaners, welding work dust collectors and wet type dust collectors.
- Business discussions for dust explosion pressure diffusion type dust collectors & vacuum cleaners require performing an explosion test and a hazard rating (billable).

①Explosion index (Kst value) ②Maximum explosion pressure (Pmax)
③Minimum ignition energy (MIE)



※Calculate the internal pressure loss of the compact dust collectors (including initial filter pressure loss) at approximately 1.47kPa.

Compact Dust Collectors

	Low pressure (static pressure up to 3 kPa)	
	Manual shaking	Pulse jet
General dry dust	 VF-5N P5  VNA P6  IS-15 P5  PiF P6-7	
For inflammable-combustible dust	 SS-N P14 ※Scrubber	
For potentially explosive power or dust	 VN-SD P23  SA P23 With explosion pressure diffusion port	 PiF-D/SD P24
For magnesium alloy dust		
Food factories and Pharmaceutical factories	 SP P10	 FP-N P9  FPV-2S P10
For laser markers VOC Remover	 VF-5HN P13	 PiF-H P13  VRC-N P14
Welding work	 FD-10 P11  HF P12	 FCN P11

Preprocessing device	Cyclone	 SR P15
	Centrifugal pre-dust box	 DB P15

Vacuum Cleaners

	Manual shaking	Pulse jet
General dry dust	 V-Z P16	 IXR P16
For potentially explosive power or dust	 V-SDR P17	
For toners (organic powder)	 VF-2LD P17	

Mid-to-high pressure (static pressure 5kPa or more)

Manual shaking	Pulse jet
 VF-2S P8	 PiF-MP/HP P8  IP/IX/IB P9
	 IP-D/IX-D/IB-D P9
	 FP-N P9  FPV-2S P10
 VF-5HG P12	

Electrostatic Oil Mist Collector for Airborne oilmist



Large-scale Dust Collectors

	Medium and lower pressure (static pressure up to 5 kPa)		High pressure (static pressure up to 20 kPa)
	Large air volume (up to 1000m³/min[35315cfm])	Medium air volume (up to 100m³/min[3531cfm])	Medium air volume (up to 100m³/min[3531cfm])
Plate filter	 SNP P25		
Woven filter	 SI P25		
Woven filter	 WRT P25	 BV P25	 CT P25
High-temperature toxic gas eliminator system	 HGD P26		
Molded cartridge filter	 WRT-ST P25	 PPC P26	 MF P26
Bag-in bag-out type	 TFP P26		
Stainless steel specifications (for high pharmacologically-active powder)	 TFP-S P26		

※WRT-ST is equipment having a molded cartridge filter mounted in the WRT unit.
※The bag-in bag-out concept utilizes a dedicated filter to allow replacing filters & ejecting dust without touching the filter or dust.

Mist Collectors

	Electrostatic precipitator	Self-Cleaning	Filter type	Filter less
Large air volume (50m³/min [1765cfm] or more)	 EM-eH P19		 MS P21	
Small air volume (up to 50m³/min [1765cfm])	 EM-8eIII P18  EM-eII P18	 EM-SC P19	 MZ P20  MC-45 P21	 MR P20

Pneumatic Conveying Systems

			Pressure feed	Vacuum feed
Large volume conveyor (up to 200 tons/h)	High pressure (Compressor)	Blow pot type	 HAF P33	
		High sealing feeder type	 HSF P33	
Small volume conveyor (up to 2 tons/h)	Low pressure (Blower)		 LAF P33	 VAF P33
		For foodstuff and pharmaceutical plants		 FPV P34
		For general-purpose plants and factories		 Vacuum conveying system P34  FV P34

VF-5N

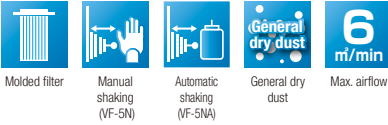
Minisize fits securely into work bed.
Compact size and low-noise make it ideal for indoor work.

Compact body



Molded cartridge filter

Compact dust collector



Specifications

Model		VF-5N		VF-5NA	
Power supply		Single phase 100V or 3-phase 200V 50Hz or 60Hz (or voltage/frequency listed on product name plate)			
Output	KW	0.4			
	HP	0.5			
Airflow	m³/min	0	3.5	6.0	
	cfm	0	123	211	
Static pressure [kPa]		2.65	1.76	0.98	
Filter	Area	1.6			
		17.2			
	Quantity	1			
	Shape/Material	Molded cartridge/Polyester Spunbond			
Dust removal		Manual shaking		Automatic shaking	
Bucket capacity	L	6.5			
	U.S.gallon	1.7			
Recommended breaker [A]		15 (Single-phase 100V) / 5 (3-phase 200V)			
Power cord	m	● Single-phase 100V, 2.3 (3 core with plug) ● 3-phase 200V, 2.7 (4 core without plug)			
	inch	● Single-phase 100V, 90 (3 core with plug) ● 3-phase 200V, 106 (4 core without plug)			
Suction port diameter	mm	ø63.5			
	inch	ø2.5			
Dimensions W×D×H	mm	380×500×623			
	inch	15.0×19.7×24.6			
Weight	kg	43		46	
	lb	95		102	
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A			

IS-15

Superb dust collection capability and easy handling!

Built-in cyclone



Molded cartridge filter

Dust with a built-in cyclone



Specifications

Model			IS-15		
Power supply			3-phase 200V 50/60Hz common use		
Output		kW	0.75		
		HP	1		
50Hz	Airflow	m³/min	0	6.0	9.0
		cfm	0	211	317
	Static pressure [kPa]	2.0	1.1	0.4	
60Hz	Airflow	m³/min	0	7.5	11.0
		cfm	0	264.8	388.4
	Static pressure (kPa)	2.8	1.5	0.4	
Filter	Area	m²	4.1		
		ft²	44.1		
	Quantity	1			
	Shape/Material	Molded cartridge/Polyester Spunbond			
Dust removal		Manual shaking			
Bucket capacity	L	20			
	U.S.gallon	5.2			
Recommended breaker [A]		10			
Power cord	m	3 (4-core, without plug)			
	inch	118 (4-core, without plug)			
Suction port diameter [mm]	mm	ø125			
	inch	ø5			
Dimensions W×D×H	mm	649×649×1462			
	inch	25.6×25.6×57.6			
Weight	kg	70			
	lb	155			
Paint color		J(PMA (Japan Paint Manufacturing Association) (Body F35-85A, Top/Bottom YN40)			

Molded cartridge filter has internal jet amplifier to boost the unique Amano in-house jet effect.

Hosoe Factory manufactures products under strict quantity supervision.



Hosoe Facility

8123 Kiga, Hosoe-cho, Hamana-ku, Hamamatsu-shi, Shizuoka-ken

VNA

Standard model designed to pursue high-quality finished basic performance.

Dust collector



Woven plate filter



Specifications

Model		VNA-15				VNA-30				VNA-45				VNA-60				VNA-120							
Power supply		Frequency 50Hz or 60Hz at 3-phase 200V																							
Output		kW				1.5				2.2				3.7				7.5							
		HP				2				3				5				10							
Airflow		m³/min				0 15 28				0 22 40				0 30 55				0 60 110							
		cfm				0 264 423				0 529 988				0 776 1412				0 1059 1942				0 2118 3884			
Static pressure [kPa]		2.45 1.77 0.69				2.55 2.10 1.20				2.55 2.20 1.00				2.90 2.35 0.80				3.20 2.94 0.70							
Filter	Area		m²				9.0				13.5				18.0				36.0						
			ft²				96.8				145.2				193.6				387.3						
	Quantity		1				2				3				4				8						
	Shape/Material		Woven plate/ canvas																						
Dust removal		Manual shaking				Manual shaking (Option: Automatic shaking)																			
Bucket capacity		L				25				36				50				25×4 (BS type)							
		U.S.gallon				6.6				9.5				13.2				6.6×4 (BS type)							
Recommended breaker [A]		10				15				20				30				60							
Power cord		m				3 (4-core, without plug)																Option(4-core)			
		inch				118 (4-core, without plug)																Option(4-core)			
Suction port diameter		mm				ø127				ø150				ø200				ø200				ø300			
		inch				ø5				ø6				ø8				ø8				ø12			
Dimensions W×D×H		mm				650×400×1205				650×650×1492				850×650×1542				1100×700×1652				1174×1464×1796			
		inch				25.6×15.8×47.5				25.6×25.6×58.8				33.5×25.6×60.8				43.4×27.6×65.1				46.3×57.7×70.8			
Weight		kg				92				145				180				270				510			
		lb				203				320				397				596				1125			
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A																							

PiF 15N/30N/45N/60N

Auto energy-saving operation via inverter & premium efficiency motor.

Pulse jet type (By differential pressure detection)

Automatic airflow control



Molded cartridge filter (length:500mm)

Energy and space-saving pulse-jet dust collector



- Energy Saving
- Premium efficiency motor (IE3)
- Inverter control improves filter life
- Easy filter replacement
- Data logging function

Specifications

Model		PiF-15N				PiF-30N				PiF-45N				PiF-60N			
Power supply		3-phase 200V 50/60Hz common use															
Motor	Output	kW				1.35				2.0				3.1			
		HP				1.8				2.6				4.1			
	Inverter Efficiency	Standard equipment															
Airflow	m³/min cfm	IE2				IE3											
		0	10	18		0	20	30		0	30	45		0	40	60	
		0	353	635	0	706	1059	0	1059	1589	0	1412	2118				
Static pressure [kPa]		2.65	1.80	0.50	2.65	2.06	1.08	2.65	1.96	0.64	3.00	2.26	0.98				
Filter	Quantity	2				4				6				8			
	Shape	Molded cartridge (length:500mm)															
	Dust removal	Automatic pulse jet (By differential pressure detection)															
	Material	Polyester Spunbond															
	Area	m²	6.0				12.0				18.0				24.0		
	ft²	64.5				129.1				193.6				258.2			
Compressed air consumption [L/min]		30				36				45				67			
Diaphragm valve [pcs.]		2				2				3				4			
Bucket capacity		L				22.5				14×2				22.5×2			
		U.S.gallon				5.9				3.6×2				5.9×2			
Recommended breaker [A]		10				15				20				30			
Power cord		3 (4-core, without plug) 118 (4-core, without plug)															
Suction port diameter		φ127				φ150				φ200				φ250			
		φ5				φ6				φ8				φ10			
Dimensions W×D×H		mm 520×650×1200				520×650×1617				680×650×1645				950×650×1797			
		inch 20.5×25.6×47.2				20.5×25.6×63.7				26.8×25.6×64.8				37.5×25.6×70.7			
Weight		kg 127				163				208				315			
		lb 280				360				459				695			
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A															

IP/IX/IB

Handles ranging from common powder to toner.
Layout-free model has a separate filter unit and blower unit.

IP

Molded filter

Pulse jet

General dry dust

6 m/min

Max. airflow

IX

Resin filter

Pulse jet

Fine powder

6 m/min

Max. airflow



Standard filter (Polyester)



Resin filter (Polyethylene)

Filter Unit Specifications

Model		IP-3	IP-3D	IX-3	IX-3D	IP-5	IP-5D	IX-5	IX-5D	
Power supply		3-phase 200V 50/60Hz common use								
Filter	Area	m ²	3.5	3.2		4.7		4.8		
	Quantity	ft ²	37.6	34.4		50.5		51.6		
	Shape		3	27		3		27		
	Material		Polyester		polyethylene		Polyester	polyethylene		
	Dust removal		Automatic pulse jet (At fixed interval)							
Diaphragm valve [pcs.]		3								
Compressed air consumption [L/min]		5.4~15.0	8.5~30.0			5.4~15.0		8.5~30.0		
Suction port diameter	mm	φ50.8				φ63.5				
	inch	φ2				φ2.5				
Exhaust port diameter	mm	φ76.3								
	inch	φ3								
Method of standard discharge		Bucket tank	Discharge valve		Bucket tank	Discharge valve				
Bucket capacity	L	30	—		30	—				
	U.S.gallon	7.9	—		7.9	—				
Dimensions	mm	W	653	881	651	879	653	881	651	879
		D	658	658	654	654	658	658	654	654
		H	1409	1537	1568	1696	1609	1737	1768	1896
	inch	W	25.8	34.7	25.7	34.7	25.8	34.7	25.7	34.7
		D	26.0	26.0	25.8	25.8	26.0	26.0	25.8	25.8
		H	55.5	60.6	61.8	66.8	63.4	68.4	69.7	74.7
Weight	kg	65	83	65	83	70	88	70	88	
	lb	143	183	143	183	154	194	154	194	
Paint color		JPMA (Japan Paint Manufacturing Association) (Body F35-85A, Top/Bottom YN40)								

Blower Unit Specifications

Model		IB-3	IB-4	IB-5	IB-3D	IB-5D
		Standard motor type (with inverter)			Explosion-proof sealed motor type (without inverter)	
Power supply		3-phase 200V 50/60Hz common use			Frequency 50Hz or 60Hz at 3-phase 200V	
Output	kW	1.5	3.7	5.5	2.2	5.5
	HP	2	4	7.3	3	7.3
Airflow	m ³ /min	0 3	0 4	5 0	5 6	0 3
	cfm	0 105	0 141	176 0	176 211	0 105
Static pressure [kPa]	mm	13 12.5	23.5 21	18.5 27	22 18.5	12 11.2
	inch	φ76.3	φ76.3	φ76.3	φ76.3	φ76.3
Suction port diameter	mm	φ3	φ3	φ3	φ3	φ3
	inch	φ3	φ3	φ3	φ3	φ3
Exhaust port diameter	mm	—	—	—	φ127	φ127
	inch	—	—	—	φ5	φ5
Recommended breaker [A]		15	30	50	20	50
Power cord		Option (4-core)			Option (4-core)	
Accessories		Hose 1 meter (specify length)			Hose 1 meter (specify length)	
Dimensions	mm	W	700	700	700	600
		D	500	500	500	430
		H	608	850	850	776
	inch	W	27.6	27.6	27.6	23.7
		D	19.7	19.7	19.7	17.0
		H	24.0	33.5	33.5	30.6
Weight	kg	90	130	155	105	187
	lb	199	287	342	232	413
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A				

SP

Easy filter installation and removal by lever operation.
Excellent internal cleansing in main unit.

Water-washable filters available



*Castors available as options.

All-stainless steel body dust collector

Woven filter

Manual shaking

General dry dust

55 m/min

Max. airflow

IE3

Premium efficiency motor



Woven plate filter



Specifications

Model		SP-15				SP-30				SP-45				SP-60				
Power supply		Frequency 50Hz or 60Hz at 3-phase 200V																
Output	kW	0.75				1.5				2.2				3.7				
	HP	1				2				3				5				
Airflow	m³/min	0	7.5	12.0	0	15.0	28.0	0	22.0	40.0	0	30.0	55.0					
	cfm	0	264	423	0	529	988	0	776	1412	0	1059	1942					
Static pressure [kPa]		2.45	1.70	0.69	2.55	2.26	1.27	2.55	2.35	1.37	2.90	2.55	1.22					
Filter	Area	m²	4.5				9.0				13.5				18.0			
		ft²	48.4				96.8				145.2				193.6			
	Quantity	1 (holds 10 pieces)				2 (holds 20 pieces)				3 (holds 30 pieces)				4 (holds 40 pieces)				
	Shape/Material	Woven plate/polyester (water-washable)																
	Dust removal	Manual shaking																
Material (body/fan)		SUS304/aluminum				SUS304/iron												
Bucket capacity	L	21				21				21×2				21×2				
	U.S.gallon	5.5				5.5				5.5×2				5.5×2				
Recommended breakers [A]		10				15				20				30				
Power cord	m	2.8 (4-core, without plug)																
	inch	110 (4-core, without plug)																
Suction port diameter	mm	φ127				φ150				φ200				φ200				
	inch	φ5				φ6				φ8				φ8				
Dimensions W×D×H	mm	Standard type	400×650×1207				650×650×1469				850×650×1497				1180×650×1660			
		HEPA filter type	400×650×1500				650×650×1740				850×650×1808				1180×650×1981			
	inch	Standard type	15.8×25.6×47.6				25.6×25.6×57.9				33.5×25.6×59.0				46.5×25.6×65.4			
		HEPA filter type	15.8×25.6×59.1				25.6×25.6×68.6				33.5×25.6×71.2				46.5×25.6×78.0			
Weight	kg	92				145				185				250				
	lb	203				320				408				552				

FP-N

Water washable filter box interior.
Hygienic design helps prevent dust from accumulating on the inside of a dust collector.

Standard filter type

Molded filter

Pulse jet

General dry dust

10 m/min

Max. airflow

Resin filter type

Resin filter

Pulse jet

Fine powder

8 m/min

Max. airflow

Specifications

Model		FP-5N						FP-10N					
Filter type		Standard filter			Resin filter			Standard filter			Resin filter		
Power supply		3-phase 200V 50/60Hz common use											
Output	kW	1.5						2.2					
	HP	2						3					
Airflow	m³/min	0	5.0	8.0	0	3.2	6.0	0	8.0	10.0	0	6.5	8.0
	cfm	0	176	282	0	113	211	0	282	353	0	229	282
Static pressure	kPa	8.5	5.5	3.2	8.5	6.1	3.1	8.5	5.5	3.4	8.5	5.6	4.2
	m²	4.5			2.6			4.5			5.2		
Filter	ft²	48.4			27.9			48.4			55.9		
	Quantity	2			4			2			8		
	Shape	Molded cartridge											
	Material	Polyester Spunbond			Polyethylene			Polyester Spunbond			Polyethylene		
	Dust removal	Auto pulse jet (fixed gap [pressure differential detector as an option])											
Compressed air consumption [L/min]		20						30					
Diaphragm valve [pcs.]		2											
Exterior finish		All SUS electrolytic grinding finish											
Bucket capacity	L	20						37					
	U.S.gallon	5.2						9.7					
Recommended breakers [A]		15								20			
Power cord		Option 4 (core)											
Suction port diameter	mm	ø100											
	inch	ø4											
Dimensions W×D×H	mm	617×966×1488			617×966×1472			617×966×1488			753×1071×1473		
	inch	24.3×38.1×58.6			24.3×38.1×58			24.3×38.1×58.6			29.7×42.2×58		
Weight	kg	190			195			200			230		
	lb	419			430			441			508		

FCN

Welding work dust collector with fire control function.

- Smoke sensor
- Spark sensor
- Pre-dust box

Molded filter

Pulse jet

Fumes

45
m³/min

IE3
Premium efficiency motor



Specifications												
Model		FCN-30				FCN-45			FCN-60			
Power supply		Frequency 50Hz or 60Hz at 3-phase 200V										
Output		kW		1.5			2.2			3.7		
		HP		2			3			5		
Airflow		m³/min		0	12	18	0	20	30	0	30	45
		cfm		0	423	635	0	706	1059	0	1059	1589
Static pressure [kPa]				2.55	1.72	0.75	2.55	2.22	1.30	2.84	2.20	1.00
Filter	Area	m²	27.0				40.5			60.8		
			290.5				435.7			654.2		
	Quantity	4				6			9			
	Shape	Molded cartridge (length:750mm, 132-ridge φ200 cylinder type)										
	Material	Polyester Spunbond										
Dust removal		Automatic pulse jet (At fixed interval)										
Diaphragm valve [pcs.]		2				3			3			
Compressed air consumption [L/min]		20				30			40			
Bucket capacity	L	Bottom part of separation box				16			30			
		Bottom part of dust collector				25			18×2			
	U.S.gallon	Bottom part of separation box				4.2			7.9			
		Bottom part of dust collector				6.6			4.7×2			
Recommended breakers [A]		15				20			30			
Power cord		m	3 (4-core, without plug)									
		inch	118 (4-core, without plug)									
Suction port diameter		mm	φ150				φ200			φ250		
		inch	φ6				φ8			φ10		
Dimensions W×D×H		mm	998×651×1817				1268×660×1827			1358×840×1897		
		inch	39.3×25.7×71.6				50.0×26.0×72.0			53.5×33.1×74.7		
Weight		kg	245				305			430		
		lb	541				673			949		
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A										

FD-10

Dust collector for welding work.

- Swing arm
- Caster
- Fire extinguishing mechanism

Molded filter

Manual shaking

Fumes

9
m³/min

IE3
Premium efficiency motor

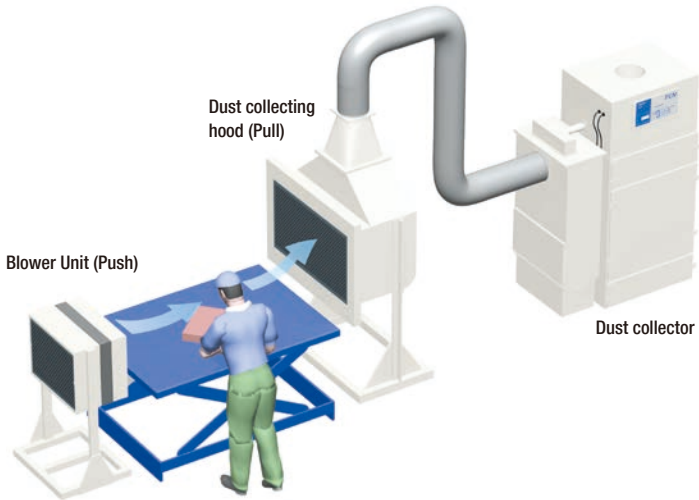


Specifications		FD-10	
Model		FD-10	
Power supply		Frequency 50Hz or 60Hz at 3-phase 200V	
Output	kW	0.75	
	HP	1	
Max. airflow	m³/min	9.0	
	cfm	317	
Max. static pressure [kPa]		2.5	
Filter	Area	20.0	
	ft²	215.2	
	Quantity	2	
	Shape/Material	Molded cartridge / nanofiber	
	Dust removal	Manual shaking	
Suction port diameter	mm	φ160	
	inch	φ6.3	
Recommended breakers [A]		10	
Power cord	m	5 (4-core, without plug)	
	inch	196 (4-core, without plug)	
Dimensions	mm	710×851×985	
	inch	28.0×33.5×38.8	
Weight	kg	152	
	lb	336	
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A	

HF

Push pull dust collecting system.

Energy Saving and Compact type



Specifications				HF-45		HF-60		HF-75		HF-150		
Model				3-phase 200V 50/60Hz common use								
Blower Unit	Power supply											
	Output	kW	0.15		0.2		0.2		0.75			
		HP	0.2		0.26		0.26		1			
	Effective outlet area	m ²	0.22		0.33		0.60		1.20			
		ft ²	2.3		3.5		6.4		12.9			
	Size of supply opening	mm	474×474		574×574		574×1044		1044×1154			
		inch	18.7×18.7		22.6×22.6		22.6×41.2		41.2×45.5			
	Range of injection velocity [m/s] [50/60Hz]		0.5~2.1/2.5		0.5~2.3/2.8		0.5~1.6/1.9		0.5~1.9/2.2			
	Range of injection airflow [50/60Hz]	m ³ /min	6.7~		9.9~		18.0~		36.1~			
		cfm	28.3/33.7		45.5/55.4		57.5/68.3		137.3/159.0			
Dust collecting hood	Weight	kg	61		76		126		221			
		lb	135		168		278		488			
	Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A									
	Effective suction area	m ²	0.32		0.45		0.78		1.74			
		ft ²	3.4		4.8		8.3		18.7			
	Size of suction opening	mm	570×570		690×690		690×1140		1254×1386			
		inch	22.5×22.5		27.2×27.2		27.2×44.9		49.4×54.6			
	Dust collection airflow	m ³ /min	63		91		163		367			
		cfm	2224		3213		5756		12960			
	Weight	kg	70		95		175		250			
lb		155		210		386		552				
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A										

VF-5HG

The “Ace” among laser marking dust collectors.
Long filter life by fixed regulation of auto air flow (capacity).

With deodorizing function

Automatic air flow control

Electret filter

Fumes

3
m³/min

Max. airflow

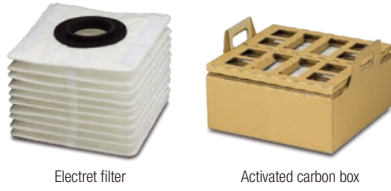


Specifications			VF-5HG	
Model				
Power supply		3-phase 200V		single-phase 100V
		50/60Hz common use		
Output	kW	1.1		0.875
	HP	1.4		1.1
Blower motor		Brushless blower motor		
Max. airflow	m³/min	3.0±0.3		2.8±0.3
	cfm	105±10		98±10
Max. static pressure [kPa]		20±3.0		17±2.3
Filter	Filtration method		Internal surface filtration	
	Area	m²	2.3	
		ft²	24.7	
	Internal volume	L	Approximately 15	
		U.S.gallon	Approximately 3.9	
	Quantity	1		
Material	electret nonwoven fabric			
Deodorant		Activated carbon [20L(8.4kg)]		
Recommended breakers [A]		10		15
Power cord	m	2.8 (without plug)		
	inch	110 (without plug)		
Suction port diameter	mm	Option (uses φ38,φ50,φ65)		
	inch	Option (uses φ1.5,φ2.0,φ2.6)		
Dimensions W×D×H	mm	440×488×798		
	inch	17.4×19.3×31.5		
Weight	kg	78		
	lb	172		
External plate material		Iron structure : finish coating JPMA (Japan Paint Manufacturing Association) F35-85A Stainless steel: hairline finish		
Operation control		Auto constant air flow control (adjustable range 0.4 to 2.2 m³/min)		

VF-5HN

Laser marker dedicated dust collector (with deodorizing function)

Low-cost laser marker dust collector.



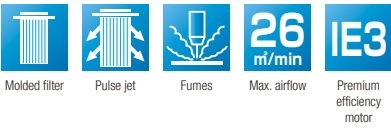
Specifications

Model		VF-5HN	
Power supply		3-phase 200V	single-phase 100V
		Frequency 50Hz or 60Hz	
Output	kW	0.4	
	HP	0.5	
Max. airflow	m³/min	3.6±0.2	
	cfm	127±7	
Max. static pressure [kPa]		2.65	
Filter	Filtration method	Internal surface filtration	
	Area	m²	2.3
		ft²	24.7
	Internal volume	L	15
		U.S.gallon	3.9
Quantity		1	
Material		Electret nonwoven fabric	
Deodorant		Activated carbon [20L(10kg)]	
Recommended breakers [A]		5	15
Power cord	m	2.3 (with plug)	
	inch	90 (with plug)	
Suction port diameter	mm	Option (uses $\phi 65, \phi 75, \phi 100$)	
	inch	Option (uses $\phi 2.6, \phi 3.0, \phi 4.0$)	
Dimensions W×D×H	mm	400×400×779	
	inch	15.8×15.8×30.7	
Weight	kg	53	
	lb	117	
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A	

PIF-H

Laser marking dust collector

For laser marking and engraving applications
Long-lasting performance on adhesive fume and odor



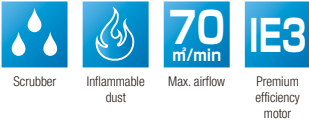
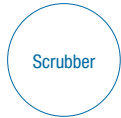
Specifications

Model		PIF-30H				PIF-60H	
Power Supply		50 or 60Hz, Three-phase 200V					
Motor Output (kW)		1.35				3.1	
Inverter		Standard Equipment					
Type		IE3 (2P) / Vertical flange mounted TEFC motor					
Airflow(m³/min)/(cfm)	(m³/min)	0	10	13	0	20	26
	(cfm)	0	353	459	0	706	918
Pressure (kPa)		2.65	1.5	1.0	3.0	1.5	1.0
Filter	Area (m²) / (ft²)	9.6 / 103				19.2 / 206	
	Quantity	2				4	
	Shape / Material	Molded Cartridge / Polyester Spunbond					
	Dust Off	Pulse Jet					
Compressed Air Consumption (L/h)	Pulse Jet Type	25 (working hour 10s/h) <30ms / 5s / 1 cycles as std. 2 times >				54 (working hour 20s/h) <30ms / 5s / 1 cycles as std. 4 times>	
	Flushing	177 (working hour 40s/h) <0.5ms / 5s / 8 cycles as std.8times>				620 (working hour 83s/h) <0.5ms / 5s / 16 cycles as std.16times>	
Zeolite (kg) / (lbs)		6.0 / 13.2				6.0x2 / 13.2x2	
Deodorant (kg) / (lbs)		5.6 / 12.3				5.6x2 / 12.3x2	
Bucket Size (L) / (U.S.gallon)		22.5 / 5.9				22.5 x 2 / 5.9x2	
Power Code (m) / (ft)		3 (4-core without plug) / 9					
Inlet Size (mm) / (in)		φ127 / φ5"				φ200 / φ7.87"	
W×D×H (mm) / (in)		520×950×1657 / 20.4×37.4×65.2				1040×950×1804 / 40.9×37.4×71.0	
Weight (kg) / (lbs)		230 / 507				405 / 893	
Paint Color		JPMA (Japan Paint Manufacturing Association) F35-85A					

SS-N

Wet type dust collector (Scrubber)

Scrubber for combustible dust. Wet type dust collector.



Specifications

Model		SS-30N	SS-40N	SS-60N	SS-75N	
Power supply		3-phase 200V 50/60Hz common use				
Output	kW	3.7		5.5	7.5	
	HP	5		7.3	10	
Airflow	m³/min	30	40	50	70	
	cfm	1059	1412	1765	2472	
Static pressure [kPa]		3.0				
Filler	Type	Rashig ring (porcelain)				
	Size	φ10×10×thickness 2mm				
	Specific surface area	m²	650			
		ft²	6996			
	Filling capacity	L	225	300	360	495
	U.S.gallon	59.5	79.3	95.2	130.8	
Suction /Exhaust port	mm	φ200/φ200	φ250/φ250	φ300/φ300	φ350/φ350	
	inch	φ8/φ8	φ10/φ10	φ12/φ12	φ14/φ14	
Circulation tank	L	330	420	512	670	
	U.S.gallon	87.1	111.0	134.7	177.0	
Demister	mm	1pc. (515×780)	2pcs. (370×780)	2pcs. (515×780)	2pcs. (615×780)	
	inch	1pc. (20.3×30.7)	2pcs. (14.7×30.7)	2pcs. (20.3×30.7)	2pcs. (24.3×30.7)	
Nozzle		4 pcs./10A	6 pcs. /10A	8 pcs. /10A	10 pcs. /10A	
Circulating pump	Recirculating water quantity [L/min]	30	50	75	90	
	Output					
	kW	0.18		0.25		
	HP	0.2		0.3		
Water supply		Water line 0.15MPa or higher/ball-tap (with manual ball valve 15A)				
Maximum inlet dust concentration/ maximum suction temperature		300mg/m³ / 40°C or less				
Recommended Breaker		Standard equipped				
Power cord		Option (4-core)				
Dimensions W×D×H	mm	1445×1000×2480	1745×1000×2480	1995×1000×2480	2520×1000×2580	
	inch	56.9×39.4×97.7	68.8×39.4×97.7	78.6×39.4×97.7	99.3×39.4×101.6	
Weight [Not including water]	kg	610	760	880	1180	
	lb	1345	1676	1940	2602	

VRC-N

VOC remover

VOC removal high-performance is achieved
by zeolite with high adsorption capacity.



Specifications

Model		VRC-30N	VRC-60N
Power Supply		Three-phase 200V 50Hz or 60Hz	
Power Consumption		16.5kw at Startup 9.4kw at No Load *Breaker capacity 75A	30.9kw at Startup 17.0kw at No Load *Breaker capacity 150A
Airflow Capacity (Max)		10~30m³ / min (at20°C)	20~60m³ / min (at20°C)
VOCs Removal Type		Zeolite Rotary Concentrator + Catalyst Oxidation	
Efficiency		More than 90% at 560ppmC (Toluene, Max Airflow)	
Processing Gas Temperature		0~40°C	
Concentration Capacity		Lower than 700ppmC	
Ambient Temperature		0~40°C	
Installation Condition		Indoor, Non-hazardous area	
Primary filter		HEPA Filter	
Suction Port Diameter (mm)	W×D×H (mm)	$\phi 200$	$\phi 300$
	W×D×H (in)	$\phi 7.8$	$\phi 11.8$
Dimensions	W×D×H (mm)	1140×757×1960	1395×1325×1861
	W×D×H (in)	44.9×29.8×77.1	54.9×52.1×73.2
Weight (kg)/(lbs.)		600 / 1322	1170 / 2579

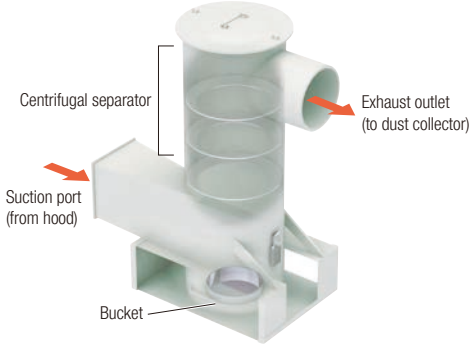
DB

Reduce entering fire inside dust collector.
Prevent from a fire accident



Pre-dust box





Centrifugal separator

Exhaust outlet (to dust collector)

Suction port (from hood)

Bucket

■ Specifications

Model		DB-10	DB-20	DB-30	DB-40
Applicable airflow	m³/min	10	20	30	40
	cfm	353.1	706.2	1059.4	1412.5
Pressure loss	490Pa at 7.5m³/min				
Minimum working airflow	m³/min	3.5	7.0	11.0	15.0
	cfm	123.6	247.2	388.4	529.7
Dimensions W×D×H	mm	465×309×647	550×405×938	700×501×1149	850×590×1372
	inch	18.4×12.2×25.5	21.7×16.0×37.0	27.6×19.8×45.3	33.5×23.3×54.1
Corresponding models		VNA-15,PIF-15	VNA-30,PIF-30	VNA-45,PIF-45	VNA-60,PIF-60
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A			

Pre-dust box

V-Σ

Factory vacuum cleaner unit Proven Bestseller!
Incredible power and durability!





Molded cartridge filter

■ Specifications

Model		V-3Σ	V-5Σ	V-7Σ
Power supply		Frequency 50Hz or 60Hz at 3-phase 200V		
Output	kW	2.2	3.7	5.5
	HP	3	5	7.3
Airflow	m³/min	0	2.5	5.1
	cfm	0	88	180
Static pressure [kPa]		14.7	13.2	8.04
Filter	Molded	Area	2.0	2.6
		Quantity	21.5	27.9
Woven	Dust removal	Automatic shaking / Manual shaking		
Bucket capacity	L	27	60	
	U.S.gallon	7.1	15.8	
Recommended breakers [A]		20	30	50
Power cord	m	10 (4-core, with plug)		
	inch	393 (4-core, with plug)		
Suction port diameter	mm	ø38.1		
	inch	ø1.5		
Dimensions W×D×H	mm	380×908×925	480×1252×1020	
	inch	15.0×35.8×36.5	18.9×49.3×40.2	
Weight	kg	110	195	220
	lb	243	430	486
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A		



Suctions up metal fragments & cutting chips

Collect metal and cutting scraps with stable suction force.

Also functions as vacuum source for factories producing precision components

Vacuum cleaner



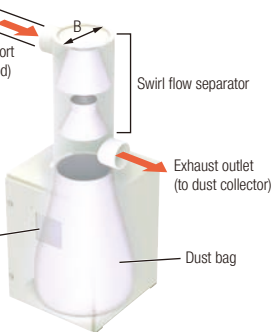
SR

Amano's unique in-house cyclone
Lengthens life of dust collector filter



Cyclone





Suction port (from hood)

Swirl flow separator

Exhaust outlet (to dust collector)

Inspection window

Dust bag

■ Specifications

Model		SR-65	SR-100	SR-125
φA	mm	63.5	100	127
	inch	2.5	4	5
φB	mm	127	200	254
	inch	5	8	10
Dimensions W×D×H	mm	400×402×879	400×402×1044	600×602×1485
	inch	15.8×15.9×34.7	15.8×15.9×41.1	23.7×23.8×58.5
Applicable airflow	m³/min	2~4	4.5~9	7.5~12
	cfm	70~141	158~317	264~423
Corresponding models		VF-5N	IS-15	VNA-PIF-15
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A		

Model		SR-150	SR-200	SR-250
φA	mm	150	200	250
	inch	6	8	10
φB	mm	300	400	500
	inch	12	16	20
Dimensions W×D×H	mm	600×602×1595	900×905×2063	900×905×2302
	inch	23.7×23.8×62.8	35.5×35.7×81.3	35.5×35.7×90.7
Applicable airflow	m³/min	10~20	17.5~35	30~50
	cfm	353~706	618~1236	1059~1765
Corresponding models		VNA,PIF-30	VNA,PIF-45	VNA,PIF-60
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A		

Model		SR-300	SR-380
φA	mm	300	380
	inch	12	15
φB	mm	600	760
	inch	24	30
Dimensions W×D×H	mm	1200×1203×3039	1200×1203×3419
	inch	47.3×47.4×119.7	47.3×47.4×134.7
Applicable airflow	m³/min	40~80	60~120
	cfm	1412~2825	2118~4237
Corresponding models		PIF-75/120,VNA-120	PIF-150
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A	

Cyclone

IXR

Internal pulse jet & compressor.
Top of the line among industrial vacuums.





Standard filter (Polyester)



Resin filter (Polyethylene)

■ Specifications

Model		IXR-3	IXR-4	IXR-5
Power supply		3-phase 200V 50/60Hz common use		
Control method		Inverter drive (6 step speed change operation)		
Output	kW	1.5	3.7	5.5
	HP	2	5	7.3
Max. airflow	m³/min	3.0	5.0	6.0
	cfm	105	176	211
Max. static pressure [kPa]		13.0	23.5	27.0
Filter	Area	3.2	4.8	4.8
Quantity	m²	34.4	51.6	51.6
	ft²			
Material		Polyethylene	Polyethylene	Polyethylene
Dust removal		Automatic pulse jet (At fixed interval)		
Diaphragm valve [pcs.]		3		
Bucket capacity	L	30	60	60
	U.S.gallon	7.9	15.8	15.8
Recommended breakers		Standard equipment		
Power cord	m	3.5 (4-core, without plug)		
	inch	137 (4-core, without plug)		
Suction port diameter	mm	ø50.8	ø63.5	
	inch	ø2	ø2.5	
Dimensions W×D×H	mm	1254×622×1258	1254×622×1458	
	inch	49.4×24.5×49.6	49.4×24.5×57.5	
Weight	kg	200	250	275
	lb	441	552	607
Internal compressor operating control		3-phase 200V 0.2kW 50/60Hz common use		
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A (roof & bucket unit: YN40)		

※Suction brushes, rods, hoses are sold separately. with inverter

Pulse jet vacuum cleaner



V-SDR

Dust explosion pressure diffusion type industrial vacuum cleaner

For use with explosive or inflammable powder such as aluminum dust.
Fullfilling safety measures.

For metals

Effect on Kst value
200-160
(3SDR) (7SDR)



Molded cartridge filter
(Anti-electrostatic filter)



Molded filter

Manual shaking

Inflammable powder/
dust that might explode

5.7
m³/min

Max. airflow

Specifications

Model		V-3SDR				V-7SDR		
Power supply		Frequency 50Hz or 60Hz at 3-phase 200V						
Output	kW	2.2				5.5		
	HP	3				7.3		
Airflow	m³/min	0	2.4	4.8	0	2.7	5.7	
	cfm	0	84	169	0	95	201	
Static pressure [kPa]		12.4	10.9	7.9	22.6	19.7	9.7	
Filter	Area	m²				2.6		
		ft²				27.9		
	Quantity	1						
	Shape	Molded cartridge (Anti-electrostatic filter)						
Dust removal		Manual shaking						
Bucket capacity	L	27				60		
	U.S.gallon	7.1				15.8		
Recommended breakers [A]		20				50		
Power cord	m	15 (4-core, without plug)						
	inch	590 (4-core, without plug)						
Suction port diameter	mm	ø38.1						
	inch	ø1.5						
Dimensions W×D×H	mm	496×1123×1052				621×1430×1194		
	inch	19.6×44.2×41.5				24.5×56.2×47.1		
Weight	kg	141				250		
	lb	311				552		
Paint color		JPMA (Japan Paint Manufacturing Association) S11-344						

1. For countries with high efficiency motor regulation, the high efficiency Totally Enclosed Fan-cooled (non-explosion-proof) motor that meets the regulations of each country is installed. The model name will be DN or D.
2. In the case of power supply specification is not 200V50Hz/60Hz or 220V60Hz, the Totally Enclosed Fan-cooled (non-explosion-proof) motor is installed. The model name will be DN or D.

VF-2LD

Dust explosion pressure diffusion type industrial vacuum cleaner

For explosive & inflammable dust other than metal such as toner.
Fullfilling safety measures.

For toner

Effect on Kst value 300

Explosion test Our inhouse explosion test photos.



Molded filter

Manual shaking

Inflammable powder/
dust that might explode

2.7
m³/min

Max. airflow

Specifications

※Suction brushes, rods, hoses are sold separately.

Model		VF-2LD	
		3-phase 200V	single-phase 100V
Power supply		Frequency 50Hz or 60Hz	
Output	kW	1.0	
	HP	1.3	
Airflow	m³/min	2.7±0.3	2.5±0.3
	cfm	95±10	88±10
Static pressure [kPa]		20.0±3.0	17.0±2.3
Filter	Area	m²	
	Quantity	23.6	
	Shape	1	
	Dust removal	Molded cartridge (dedicated toner fine-fil static charge)	
Bucket capacity	L	13	
	U.S.gallon	3.4	
Recommended breakers [A]		10	15
Power cord	m	10.3 (4-core, without plug)	10.3 (3-core, with plug)
	inch	405 (4-core, without plug)	405 (3-core, with plug)
Suction port diameter	mm	ø38	
	inch	ø1.5	
Dimensions W×D×H	mm	430×895×1500	
	inch	17.0×35.3×59.1	
Weight	kg	107	110
	lb	236	243
Paint color		JPMA (Japan Paint Manufactuirng Association) S11-344	



Molded cartridge filter
(dedicated toner Fine-fil static charge)



EM-8eIII

Electrostatic precipitator mist collector

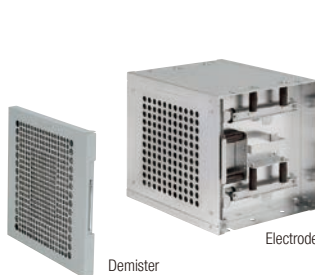
Powerful collection of highly concentrated mist up to 200mg/m³
Compact electric collectors. Operational for both oil and water soluble mist

Compact



Specifications

Model		EM-8eIII	
Power Supply		200V Single Phase, 50/60Hz	
Power Consumption (kW) / (HP)		0.13 / 1.3	
Rated Airflow (m³/min) / (cfm)		7.5 / 265	
Max Static Pressure (Pa)		900	
Noise Level (dB(A))		less than 65±2	
Primary Filtration		Stainless Steel Wire Demister	
Charge Method		Two-stage Negative Charge	
Ionize Electrode		Brush Type	
Ionize Cell HV (kV)		-8	
Collection Cell LV (kV)		-6	
Control		3-stage airflow control based on fan current and fan speed, operated via control panel or external signal input.	
Collecting target		Soluble mist and Oil mist with a flash point of more than 80°C. Soluble mist with electrical conductivity of less than 300mS/m.	
Collection Efficiency (%)		99	
Max Concentration (mg/m³)		200	
Recommended Breaker (A)		5	
Power Code (m) / (inch)		3.5 / 138 (VCT 3-core, 0.75mm², No plug)	
Oil Drain Port		R1 (1 inch male taper)	
Dimensions	W x D x H (mm)	430×535×400	
	W x D x H (in)	16.6×21.1×15.3	
Weight (kg)/(lbs.)		29 / 63	
Paint Color		JPMA(Japan Paint Manufacturing Association) F35-85A	



Electrical

Mist

7.5
m³/min

Max. airflow

EM-eII

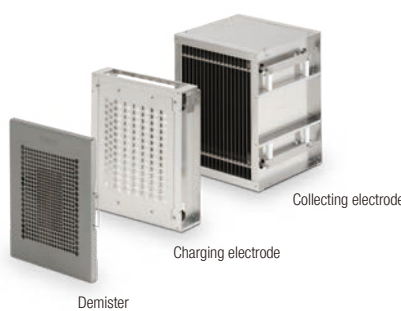
Electrostatic precipitator mist collector

Powerful collection of highly concentrated mist up to 200mg/m³
Bestseller among electric collection Mist Collectors
Operational for both oil and water soluble mist



Specifications

Model			EM-15eII		EM-30eII	
Power supply			3-phase 200V 50/60Hz common use			
Output		kW	0.75		1.5	
		HP	1		2	
Usage Point	m³/min	50Hz	15 (19)		30 (34)	
Airflow		60Hz	15 (22)		30 (40)	
*Figure in () is maximum value	cfm	50Hz	529 (670)		1059 (1200)	
		60Hz	529 (776)		1059 (1412)	
Usage point static pressure [Pa]		50Hz	350 (550)		280 (450)	
*Figure in () is maximum value		60Hz	600 (750)		500 (600)	
Prefilter			Stainless steel wire demister			
			(-) negative charge, 2-stage charging system			
Electric collection part	Electric charge method		Needle type (titanium)			
	Charging electrode type		-10			
	Electrode charging voltage HV [kV]		-6			
	Collecting electrode voltage LV [kV]		Oil mist, Water-soluble oil mist and Oil soluble & water soluble mist with ignition point of 80°C or more			
Collecting target						Water-soluble mist with electric conductivity of 300mS/m or less
Collecting efficiency [%]						99 (Weight ratio per filter paper) Depending on suction air volume
Maximum inlet concentration [mg/m³]						200
Recommended breakers [A]						10 15
Power cord	m	3.5 (4-core, without plug)				
	inch	137 (4-core, without plug)				
Drainage port	1-inch nipple (taper male screw for R1 pipe)					
Dimensions W×D×H	mm	478×993×620		813×1093×620		
	inch	18.9×39.1×24.5		32.1×43.1×24.5		
Weight	kg	72		120		
	lb	159		265		
Paint color	JPMA(Japan Paint Manufacturing Association) F35-85A					



Electrical

Mist

30
m³/min

Max. airflow

IE3

Premium efficiency motor

EM-SC

Clean electrodes without washing by water or detergent.
Equipped with auto self-cleaning function.
Top of the line in electric collection -mist collectors.

Self-cleaning



Cleaning

Electrical

Mist

30
m³/min

IE3
Premium efficiency motor
※Except EM-8SC

■ Specifications

Model		EM-15SC	EM-30SC
Power supply		3-phase 200V 50/60Hz common use	
Output	kW	0.75	1.5
	HP	1	2
Max. airflow	m³/min	15.0	30.0
	cfm	529	1059
Max. static pressure [Pa]		500	
Pre-processing		Metal eliminator	
Electric collection part	Electric charge method	(+) positive charge, 2-stage charging system	
	Charging electrode type	Needle type (titanium)	
	Electrode charging voltage HV [kV]	10	
	Collecting electrode voltage LV [kV]	8	
	Cleaning method	Cleaning by rotating electrode & stationary scraper	
Objects for collection		Oil mist, Water-soluble oil mist and Oil soluble & water soluble mist with ignition point of 80°C or more Water-soluble mist with electric conductivity of 300mS/m or less	
Collecting efficiency [%]		99 (weight ratio per filter paper)	
Maximum inlet concentration [mg/m³]		200	
Recommended breakers [A]		10	15
Power cord	m	3.5 (4-core, without plug)	
	inch	137 (4-core, without plug)	
Drainage port		1-inch nipple (taper male screw for R1 pipe)	
Dimensions W×D×H	mm	872×476×1086	1310×476×1209
	inch	34.3×18.8×42.8	51.6×18.8×47.6
Weight	kg	107	140
	lb	236	309
Paint color		JPMA(Japan Paint Manufacturing Association) F35-85A	

※Suction inlet packing comes supplied with optional suction inlet.

EM-eH

Turbofan gives extra power for air flow & static pressure.
Ideal for die casting machines.

Max. air flow
90m³/min



Electrical

Mist

90
m³/min

IE3
Premium efficiency motor

■ Specifications

Model		EM-60eH				EM-90eH			
Power supply		3-phase 200V 50/60Hz common use							
Output	kW	3.7				5.5			
	HP	5.0				7.3			
Airflow	m³/min	0	40	60 (Operating point) 2118	0	60	90 (Operating point) 3178		
	cfm	0	1412	0.50	0	2118	0.27		
Static pressure [kPa]		2.23	1.50	0.50	2.76	1.70	0.27		
Pre-processing	Eliminator	4 pcs.				6 pcs.			
	Demister	2 pcs.				4 pcs.			
Electric collection part	Charging electrode	4 pcs.				6 pcs.			
	Collecting electrode	4 pcs.				6 pcs.			
Safety measure	Fire protection damper	One unit of the FVD type damper (with volume adjuster, temperature fuse, limit switch) is provided as a standard accessory.							
Collecting efficiency [%]		97.5 (weight ratio per filter paper) airflow at operating point							
Maximum inlet concentration [mg/m³]		50							
Recommended breakers		Standard equipped							
Power cord		Option (4-core)							
Drainage port		1-inch single-ended male nipple (with valve and elbow)							
Dimensions W×D×H	mm	905×958×2221				905×1303×2266			
	inch	35.7×37.8×87.5				35.7×51.3×89.2			
Weight	kg	375				550			
	lb	827				1213			
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A							

with inverter

MR

Equipped self-draining system and iverter operation.
Grately reduce clogging of collection disks.

Filter Less



Filter Less

Mist

22
m³/min

OUT

Outlet

Guide vanes

Fan

Machine tool side

IN

Exhaust muffler

Collection disk

Suction port

Motor

■ Specifications

型式		MR-5	MR-10	MR-15	MR-25	
Power supply		3-phase 200V 50/60Hz common use	3-phase 200~240V 50/60Hz common use			
Output	kW	0.4	0.75	1.5	2.2	
	HP	0.5	1	2	3	
Max. airflow	50Hz	m³/min	4.8	9.5	15.0	22.0
		cfm	169	335	529	776
	60Hz	m³/min	5.5	9.5	15.0	22.0
		cfm	194	335	529	776
Max. static pressure [Pa]	50Hz	0.8	1.3	1.3	1.3	
	60Hz	1.2				
Collecting method		Rotary collision method				
Collecting efficiency [%]		99.9 ※Particle size 5µm or larger				
Objects for collection		Water soluble mist (Ph7.0~10.5) ※Particle size 2µm or larger				
Maximum inlet concentration [mg/m³]		50				
Recommended breakers [A]		5	20			
Power cord		Option(4-core)				
Suction port diameter	mm	φ98	φ123	φ148	φ198	
	inch	φ3.9	φ4.9	φ5.9	φ7.9	
Drainage port		Primary draing port:Dia.25mm (1Inch) / secondary drain port:Dia.10mm (0.39Inch)				
Dimensions W×D×H	mm	440×590×460	460×660×466	512×746×507	557×857×569	
	inch	17.3×23.2×18.1	18.1×25.9×18.3	20.1×29.3×19.9	21.9×33.7×22.4	
Weight	kg	45	35	50	65	
	lb	99	77	110	143	
Paint color		JPMA(Japan Paint Manufacturing Association) F35-85A / YN-40				

MZ

Energy Saving model.
Operation at same air flow but with a motor that is lower notch.

Energy Saving



Filter

Mist

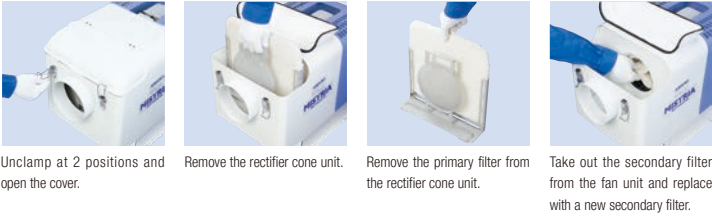
20
m³/min

IE3
Premium efficiency motor
※Except MZ-10

Filter type mist collector

Easy toolless maintenance!

Maintenance is easy even in high positions such as upper parts of machine tools.



■ Specifications

Model		MZ-10	MZ-15	MZ-30	
Power supply		3-phase 200V 50/60Hz common use			
Output	kW	0.4	0.75	1.5	
	HP	0.5	1	2	
Max. airflow	m³/min	50Hz	8.3	10.5	17
		60Hz	10	12.5	20
	cfm	50Hz	293	370	600
		60Hz	353	442	709
Max. static pressure [kPa]	50Hz	0.9	0.9	1.2	
	60Hz	1.3	1.3	1.75	
Primary filter		Polyester (1 pc. use)			
Secondary filter		Polyester (1 pc. use)			
Collecting efficiency [%]		99.7 and over (2µm and over water soluble mist)			
Objects for collection		Water soluble mist (intake of oily mist after mounting an after-filter available as an option)			
Maximum inlet concentration [mg/m³]		20			
Recommended breakers [A]		5	10	15	
Power cord		Option (4-core)			
Suction port diameter	mm	φ123	φ148	φ198	
	inch	φ4.9	φ5.9	φ7.8	
Drainage port		φ16mm (2 locations) non-thread screws (use for insertion of hose)			
Dimensions W×D×H	mm	306×556×450	356×583×460	407×672×604	
	inch	12.1×21.9×17.8	14.1×23.0×18.2	16.1×26.5×23.8	
Weight	kg	27	35	60	
	lb	60	78	133	
Paint color		JPMA (Japan Paint Manufacturing Association) main unit F35-85A, exhaust box U77-60L			

MS

Proprietary swirl flow separator.
Ideal for collection from multiple machine tools.

Max. airflow
400m³/min



Large air flow filter type mist collector



Filter

Specifications		※ Fan motor is sold separately							
Model		MS-100	MS-150	MS-200	MS-250	MS-350	MS-400		
Applicable capacity	m³/min	100	150	200	250	350	400		
	cfm	3531	5297	7062	8828	12360	14125		
Primary filter	Dimensions W×H	500×666		800×1000					
	mm	19.7×26.3		31.5×39.4					
	Quantity	16	20	24	32	40	40		
	Material	Sponge + particular fiber							
Secondary filter	Dimensions W×H×D	610×610×290		610×610×290		610×760×290			
	mm	24.1×24.1×11.5		24.1×30.0×11.5					
	Quantity	4		6		9			
	Material	Glass wool							
Objects for collection		Water soluble mist/oil mist							
Maximum inlet concentration [mg/m³]		20							
Suction port diameter	mm	φ380	φ470	φ550	φ610	φ720	φ770		
	inch	15	18.6	21.7	24.1	28.4	30.4		
Dimensions	mm	W	3250	3635	4590	4730	5300	5390	
		D	1500	1870	1700	2050	2560	2600	
		H	1590	1590	2250	2250	2250	2700	
		W	128.0	143.2	180.8	186.3	208.7	212.3	
	inch	D	59.1	73.7	67.0	80.8	100.8	102.4	
		H	62.6	62.6	88.6	88.6	88.6	106.3	
		Weight	kg	1200	1600	2200	2400	2900	3500
			lb	2646	3528	4851	5292	6395	7718
Drainage port	1-1/2 inch socket [set]	4							
	2 inch socket [set]	1							
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A							

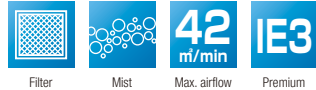
MC-45

Medium airflow mist collector.

Max. airflow
42m³/min



Filter type medium airflow mist collector



Filter

■ Specifications		MC-45		
Model		MC-45		
Power supply		Frequency 50Hz or 60Hz at 3-phase 200V		
Output	kW	2.2		
	HP	3		
Airflow	m³/min	0	20	42
	cfm	0	706	1483
Static pressure [kPa]		2.75	2.26	0.49
Primary filter	Quantity	1		
	Material	Metal mesh		
Secondary filter	Quantity	1		
	Material	Urethane sponge		
Objects for collection		Water soluble mist		
Maximum inlet concentration [mg/m³]		20		
Recommended breakers [A]		20		
Power cord	m	3 (4-core, without plug)		
	inch	118 (4-core, without plug)		
Suction port diameter	mm	φ200		
	inch	φ8		
Drain port		Equipped with drain valve and drain tank		
Dimensions W×D×H	mm	850×650×1759		
	inch	33.5×25.6×69.3		
Weight	kg	185		
	lb	408		
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A		

※Performance values might change from those shown on custom order specifications.

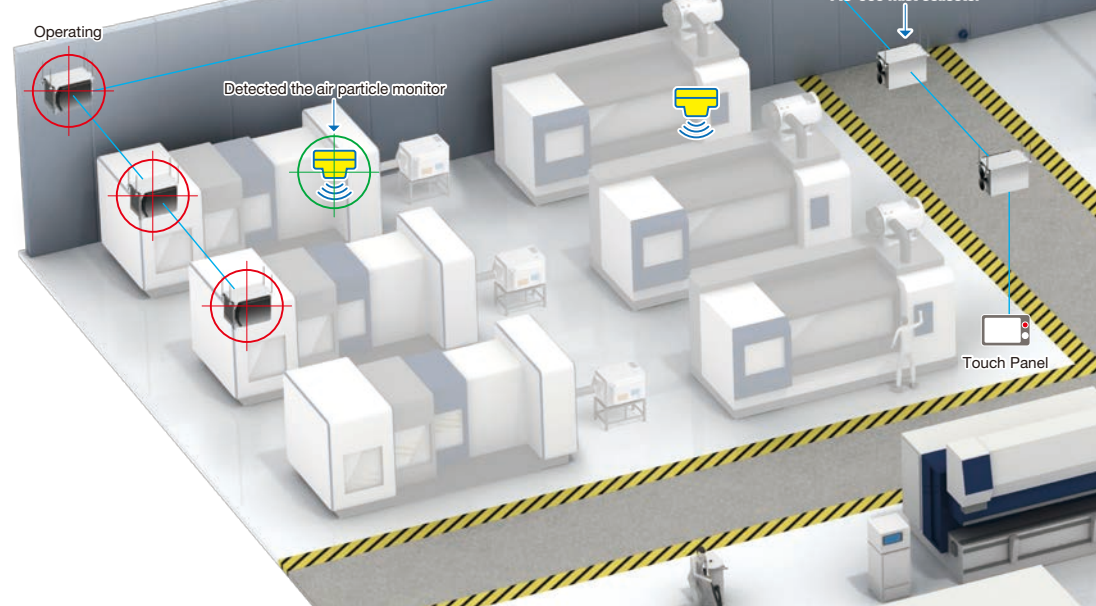
AC-900

Electrostatic Oil Mist Collector for airborne oil mist

Solving Issues Caused by Suspended Oil Mist in Metal Processing Factories.

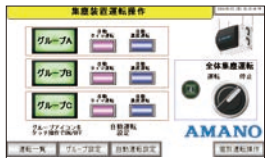


■ Installation Image



Extended Features (Example) for TYPE AC-900 M

- Centralized Control of Each Device via Dedicated TouchPanel
- Energy-saving operation through coordinated operation with air particle monitors



Group operation



Operation List



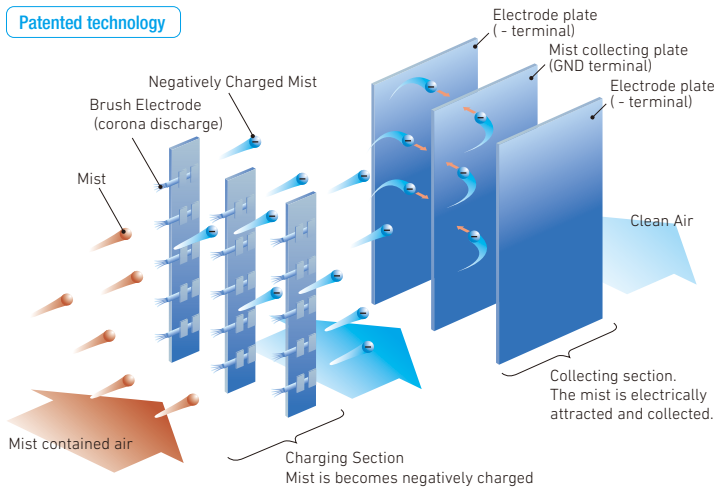
Calendar function

Electrostatic Collection Method

When air containing mist passes through the charged electrodes undergoing corona discharge, the mist in the air becomes charged to a single potential.

This charged mist then flows into the subsequent dust collection section, where it is attracted and collected on the dust collection plates (grounded electrodes) due to the electrical attraction force (Coulomb force).The electrostatic collection method does not clog, so the suction power does not decrease. Additionally, unlike the filter method, it does not produce waste.

Patented technology



■ Specifications		AC-900
Model		AC-900
Power Supply		1P 100-220V +/-10% 50/60HZ
Control Voltage		DC24V
Power Consumption(W)		130
Airflow (m³/min)		15
Electric collection part		Charge Type : Negative charging system
Charging electrode voltage HV(kV)		Charging part : Brush charging type
Charging electrode voltage LV(kV)		-6.0
Fan		-5.0
Safety equipment		DC Axial Fan (2 units)
Oil Drain Port		Door switch
Collecting target		1-inch nipple (tapered screw for R1 pipe)
		Suspended oil mist in the factory
		Mist with pH 7.0 to 10.5
		Oil-based and water-soluble mist with a flash point above 80°C
Collecting efficiency(%)		Water-soluble mist with electrical conductivity below 300 mS/m
Weight-based Ave. particle diameter 1.2μm		70
Noise(dB(A)) Machine Side3m, Tolerance Value±2		60
Use environmental temperature(°C)		0~40
Operating Ambient Temperature(°C)		0 to 40°C (no freezing)
Use environmental humidity(%RH)		10 to 90% (no condensation)
Operating Ambient Mist Concentration(mg/m³)		Less than 2
Weight(kg)		20
Dimension W×D×H(mm)		346×568×345
Paint Color		Japan Paint Manufacturers Association F35-85A

■ Types

AC-900 S	Standalone ON/OFF operation (with local operation switch) without communication function
AC-900 M	Centralized control and monitoring
	[Extension Features]
	• Additional equipment control (air particle monitor)
	• Web monitoring (in Japan only)*

※Expected release date

VN-SD

Fullfilling safety measures.
Dust collector for explosive and flammable dust, aluminum and so on.

Effect on Kst values of 400



Explosion pressure diffusion port
Pressure from explosion is discharged into air to prevent damage to the equipment.



Extinguisher port
In the unlikely event fire occurs in the equipment, extinguishing agent is dispensed.



Check valve
Prevents reverse flow of blow force or fire to protect the worker.



Woven filter



Manual shaking



Inflammable powder/dust that might explode



Max. airflow

Model	Kst value (x10 ³ kPa·m/s or less)	Pmax(x10 ³ kPa or less)
VN-30SD	400	11.5
VN-45SD	400	11.5

Effective area was calculated based on "Explosive pressure discharge device technical guidelines(Revised version)NIIS-TR-No.38(2005)" in incorporated agency industrial safety institute laws.
Above figures are for standard equipment.
Please have the target dust evaluated for explosion potential (billed to customer).

Specifications

Model		VN-30SD				VN-45SD			
Power supply		Frequency 50Hz or 60Hz at 3-phase 200V							
Output	kW	1.5				2.2			
	HP	2				3			
Airflow	m³/min	0	15	24.5	0	20	35		
	cfm	0	529	865	0	706	1236		
Static pressure		kPa	2.84	1.62	0.39	2.75	1.72	0.49	
Filter	Area	m²	7.5				10.0		
		ft²	80.7				107.6		
	Quantity		3				4		
	Shape		Woven plate (canvas filter plus aluminum sheet with earthing conductor)						
	Dust removal		Manual shaking						
Bucket capacity	L	27				38			
	U.S.gallon	7.1				10.0			
Recommended breakers [A]		15				20			
Power cord	m	5 (4-core, without plug)							
	inch	196 (4-core, without plug)							
Suction port diameter	mm	φ150				φ200			
	inch	φ6				φ8			
Dimensions W×D×H	mm	650×850×1656				850×900×1812			
	inch	25.6×33.5×65.2				33.5×35.5×71.4			
Weight	kg	220				280			
	lb	486				618			
Paint color		JPMA (Japan Paint Manufacturing Association) S11-344							

- The dimensions mentioned above are only for the main unit. A check valve, an electrical box, the roof of outdoor specifications are not included.
- A dust explosion-proof motor (motor having structure to prevent the invasion of the outside substance) is installed.
- For countries with high efficiency motor regulation, the high efficiency Totally Enclosed Fan-cooled (non-explosion-proof) motor that meets the regulations of each country is installed. The model name will be DN or D.
- In the case of power supply specification is not 200V50Hz/60Hz or 220V60Hz, the Totally Enclosed Fan-cooled (non-explosion-proof) motor is installed. The model name will be DN or D.

SA

Magnesium alloy dust dedicated scrubber.
The pinnacle of wet dust collectors.

Specifically designed for Magnesium



Wet dust collection



Inflammable powder/dust that might explode



Operating airflow

Model	Kst value (x10 ³ kPa·m/s or less)	Pmax(x10 ³ kPa or less)
SA-30	500	17.5
SA-45	500	17.5
SA-60	500	17.5

Effective area was calculated based on "Explosive pressure discharge device technical guidelines(Revised version)NIIS-TR-No.38(2005)" in incorporated agency industrial safety institute laws.
Above figures are for standard equipment.
Please have the target dust evaluated for explosion potential (billed to customer).

Specifications

※ The main body of the dust collector is designed for outdoor use. The control panel is designed for outdoor use (dustproof and waterproof).

Model		SA-30	SA-40	SA-60
Power supply		Frequency 50Hz or 60Hz at 3-phase 200V		
Output	kW	3.7	5.5	7.5
	HP	5.0	7.3	10.0
	Specifications	Safety-enhanced explosion-proof type※1		
Airflow	m³/min	30	45	60
	cfm	1059	1589	2118
Static pressure [kPa]		1.39	1.43	1.14
	Noise	74±2 or less	76±2 or less	76±2 or less
collection efficiency		99% (Measured using the JIS test powder No.1 white alumina (average particle size of 2.04μm) with the filter paper weighing method.)		
Qty. of installed hydrogen venting valves		4	8	8
Qty. of installed explosion vents		4	8	8
Water storage capacity	L	800	1125	1600
	U.S.gallon	211	297	423
Water supply method		Automatic control by automatic water supply valve and water level sensor		
Dust discharge method		scrape out		
Power cord		Option (4-core)※2		
Suction port diameter	mm	φ200	φ250	φ250
	inch	φ8	φ10	φ10
Dimentions W×D×H	mm	2592x1296x3612	2677x1635x3812	2818x2010x3972
	inch	102.0x51.0x142.2	105.4x64.4x150.1	110.9x79.1x156.4
Weight	kg	880	1125	1400
	lb	1940	2480	3086
Paint color		JPMA (Japan Manufacturing Association) S11-344		

- ※Please note that the performance values listed are for standard specifications. Performance values may vary for custom specifications.
※1 A motor with features to prevent foreign object intrusion from external sources and to prevent spark generation.
※2 In the separate control panel specification, it is not possible to attach the control panel directly to the main body of the dust collector. The length of the cords between the motor and the control panel, and between the control panel and the power supply, must be specified when placing order. (extra charge).
In the case of mounting control panel to main body specifications, the cord between the motor and the control panel is installed as standard. It is not necessary to specify.

※Performance values might change from those shown on custom order specifications.

PiF-D/SD

Fullfilling safety measures.
Dust collector for explosive and flammable dust, aluminum and so on.

Pulse jet type (By differential pressure detection)

Effect on Kst values of 400 ※Except PiF-75D/120D/150D



Molded cartridge filter (Anti-electrostatic filter)



Check valve
Prevents reverse flow of blow force or fire to protect the worker.



Explosion pressure diffusion port
Pressure from explosion is discharged into air to prevent damage to the equipment.



Molded anti-electrostatic filter



Pulse jet



Inflammable powder/dust that might explode



Max. airflow



Premium efficiency motor ※Except PiF-30SD/45SD

Model	Kst value (x10 ³ kPa·m/s or less)	Pmax(x10 ³ kPa or less)
PiF-30D	400	11.5
PiF-45D	400	11.5
PiF-60D	400	11.5
PiF-75D	300	11.0
PiF-120D	300	11.0
PiF-150D	300	11.0
PiF-30SD	400	11.5
PiF-45SD	400	11.5

Effective area was calculated based on "Explosive pressure discharge device technical guidelines(Revised version)NIIS-TR-No.38(2005)" in incorporated agency industrial safety institute laws.
Above figures are for standard equipment.
Please have the target dust evaluated for explosion potential (billed to customer).

Specifications

Model			PiF-30D			PiF-45D			PiF-60D			PiF-75D			PiF-120D			PiF-150D			PiF-30SD			PiF-45SD					
Power supply			3-phase 200V 50/60Hz common use															Frequency 50Hz or 60Hz at 3-phase 200V											
Motor	Output	kW	1.35			2.0			3.1			5.5			7.5			11.0			1.5			2.2					
	HP		1.8			2.6			4.1			7.3			10.0			15.0			2.0			3.0					
Inverter Efficiency			Standard equipment															—											
			IE3															IE1 (Dust explosion-proof motor)											
Airflow	m³/min		0	15	30	0	22.5	45	0	35	60	0	50	75	0	65	105	0	100	150	0	15	22	0	22.5	35			
	cfm		0	529	1059	0	794	1589	0	1236	2118	0	1765	2648	0	2295	3708	0	3531	5297	0	529	776	0	794	1236			
Static pressure	[kPa]		2.75	2.00	0.80	2.75	2.20	0.40	3.00	2.20	0.50	3.10	2.50	0.90	3.20	2.41	0.59	3.10	2.27	0.72	2.75	1.72	0.49	2.75	1.62	0.35			
			12.0			18.0			24.0			38.4			57.6			86.4			12.0			18.0					
Filter	Area	m²	129.1			193.6			258.2			413.4			620.0			930.0			129.1			193.6					
	ft²		4			6			8			8			12			18			4			6					
Shape	Molded cartridge (length:500mm) (Anti-electrostatic filter)																												
	Molded cartridge (length:750mm) (Anti-electrostatic filter)																												
Dust removal	Molded cartridge (length:500mm) (Anti-electrostatic filter)																												
	Automatic pulse jet (by differential pressure detection)																												
Compressed air consumption [L/min]			36			45			67			75			86			100			36			45					
Diaphragm valve [pcs.]			2			3			4			4			6			6			2			3					
Recommended breakers [A]			15			20			30			50			60			75			15			20					
Power cord	m		5 (4-core, without plug)															Option (4-core)						5 (4-core, without plug)					
	inch		196 (4-core, without plug)															Option (4-core)						196 (4-core, without plug)					
Bucket capacity	L		27			38			27×2			22.5×2			22.5×3			22.5×3			27			38					
	U.S.gallon		7.1			10.0			7.1×2			5.9×2			5.9×3			5.9×3			7.1			10.0					
Suction port diameter	mm		φ150			φ200			φ250			φ290			φ380			φ150			φ200								
	inch		φ6			φ8			φ10			φ11.5			φ15			φ6			φ8								
Dimensions W×D×H	mm		607×1243×1569			786×1228×1600			950×1209×1774			950×1540×2291			1398×1666×2393			1484×2009×3054			556×1245×2247			681×1237×2392					
	inch		23.9×48.9×61.7			30.9×48.3×62.9			39.0×47.5×69.8			37.4×60.6×90.2			94.4×65.6×94.2			58.4×79.0×120.2			21.8×49.0×88.4			26.8×48.7×94.1					
Weight	kg		290			340			465			520			710			1020			375			435					
	lb		640			750			1026			1147			1566			2249			827			959					
Paint color			JPMA (Japan Paint Manufacturing Association) S11-344																										

- The dimensions mentioned above are only for the main unit. A check valve, an electrical box, the roof of outdoor specifications are not included.
- A dust explosion-proof motor (motor having structure to prevent the invasion of the outside substance) is installed on PiF-30SD and PiF-45SD.

※Notes 3 and 4 in above PE-SDN are not applicable when changing PiF-SD motor.

SNP

Space saving dust collector from the use of plate filter.

Moderate pressure large blow force



SNP-5H2W



Plate filter



Plate filter



Pulse jet



General dry dust



450 m²

Paint color JPMA (Japan Paint Manufacturing Association) 634

See page 27 of specification table

SI

Down flow & Side inlet type woven filter
Safe and hygienic filter replacement

Moderate pressure large blow force



SI-1004



Woven filter



Woven filter



Pulse jet



General dry dust



100 m²

Paint color JPMA (Japan Paint Manufacturing Association) F35-85A

See page 30 of specification table

WRT/WRT-ST

Bestseller among large blowforce dust collectors
Large filter selection gives wide-ranging response potential(WRT)
Space saving & low cost by Molded cartridge filter(WRT-ST)

Moderate pressure large blow force



WRT-10320



WRT-5154ST



Woven filter



Molded cartridge filter



(WRT) Woven filter



Pulse jet



General dry dust



1055 m²



(WRT-ST) Molded filter



Pulse jet



General dry dust



816 m²

Paint color JPMA (Japan Paint Manufacturing Association) 634

See page 27~29 of specification table

BV

Ideal for air bleeding from silos and hoppers.

Moderate pressure medium blow force



BV-1009



Woven filter



Woven filter



Pulse jet



General dry dust



35 m²

Paint color JPMA (Japan Paint Manufacturing Association) 634

See page 30 of specification table

CT

High vacuum resistant body ideal for pneumatic conveying and central cleaning.

High pressure medium blow force



CT-1008



Woven filter



Woven filter



Pulse jet



General dry dust



90 m²

Paint color JPMA (Japan Paint Manufacturing Association) 634

See page 30 of specification table

※Performance values might change from those shown on custom order specifications.

PPC

Molded filter type
Ideal for air bleeding from silos and hoppers.

Moderate pressure medium blow force



PPC-3066



Molded cartridge filter



Molded filter



Pulse jet



General dry dust



75 m²

Paint color JPMA (Japan Paint Manufacturing Association) 634

See page 31 of specification table

MF

Compact, cylindrical body is ideal for intake of pneumatic conveying.

High pressure medium blow force



MF-2004



Molded cartridge filter



Molded filter



Pulse jet



General dry dust



18 m²

Paint color JPMA (Japan Paint Manufacturing Association) 634

See page 32 of specification table

TFP

The bag-in bag-out concept allows replacing filters & ejecting dust without touching the dust.

Bag-in Bag-out



TFP-0403



Molded cartridge filter



Molded filter



Pulse jet



General dry dust



81 m²

Paint color JPMA (Japan Paint Manufacturing Association) 634

See page 32 of specification table

TFP-S

High-pharmacologically-active dust collector.

Effective on high-pharmacologically-active powder

- Bag-in Bag-out type
- Wet-down
- Liner packs



TFP-S0201





Molded filter



Pulse jet



High chemically active powder



33 m²

See page 32 of specification table

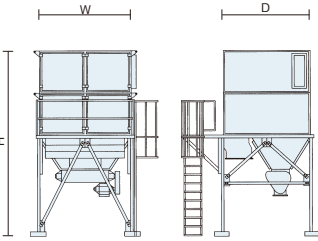
HGD

Removes dioxins, acid gas, heavy metals and fine particles from high temperature incinerated gas.

Compatible with dioxins

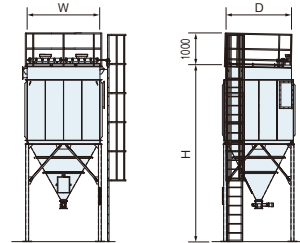


We design to match customer needs.



■ **Model description**
Basic unit is expressed by 1H1W. A total of 34 filters are installed inside and provide a total surface area of 45 square meters. Assembling these units horizontally and vertically gives the model type shown at right. Model types combinable as standard configurations in this catalog are listed.

Example : **SNP-3H 2W**
↑ ↑
Number of vertical units Number of horizontal units

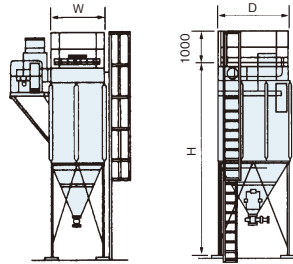


SNP

■ SNP

Model	Dimensions						Filter			No. of valves	Air supplied quantity [L /min]	Weight	
	mm			inch			Area		Quantity			kg	lb
	W	D	H	W	D	H	m²	ft²					
SNP-2H1W	1150	2182	4708	45.3	86.0	185.4	90	968	68	8	187	1550	3418
-3H1W			5808			228.7	135	1452	102	12	280	2100	4631
-4H1W			6908			180	1936	136	16	420	2500	5513	
-2H2W	5031		1936	136			3100	6836					
-3H2W	2300		6131	90.6		241.4	270	2905	204	24	560	4200	9261
-4H2W			7231	284.7		360	3873	272	32	700	5100	11246	

● Filter: Plate filter ● Dust removal: Automatic pulse jet



■ WRT-3000/5000 Series (with an onboard fan)

Model	Dimensions						Airflow		Static pressure [kPa]	Output		Filter				No. of valves	Air supplied quantity [L/min]	Weight													
	mm			inch								Area		Quantity	Length																
	W	D	H	W	D	H	m³/min	cfm		kW	HP	m²	ft²		mm			inch	kg	lb											
WRT-3054TF	1200	2160	5580	47.2	85.1	219.7	50	1765	3.43	5.5	7.3	51.5	554	54	1933	76	6	150	2400	5292											
							75	2648		7.5	10																				
							95	3354		11	15																				
							110	3884		15	20																				
							125	4414		7.5	10																				
-5054TF	1200	2160	6150	47.2	85.1	242.1	75	2648		11	15	67.6	727	54	2540	100	6	150	2600	5733											
							95	3354		15	20																				
							110	3884		18.5	25																				
							145	5120		11	15																				
-5072TF	1600		2160	6150		63.0	85.1	242.1		95	3354	15	20	90.1	969	72	2540	100	8	200	2900	6395									
										125	4414	18.5	25																		
									145	5120	11	15																			
									18.5	25	11	15																			
-5090TF	2000	2160		6150	78.7	85.1		242.1	110	3884	15	20	112.7	1212	90	2540	100	10	240	3200	7056										
									145	5120	18.5	25																			
	3465			6005	136.5			236.5	180	6356																					
									200	7062																					

T: Top inlet

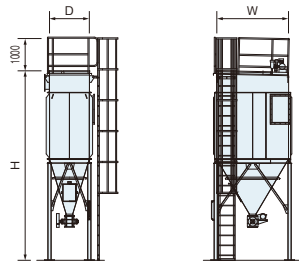
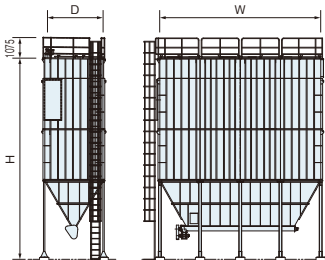
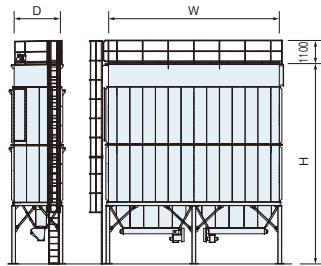
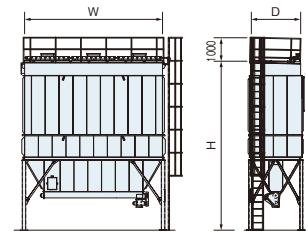
WRT

■ WRT-3000/5000 Series (with a separate fan)

Model	Dimensions						Filter			No. of valves	Air supplied quantity [L/min]	Weight			
	mm			inch			Area		Quantity			Length		kg	lb
	W	D	H	W	D	H	m²	ft²				mm	inch		
WRT-3054B	1200	1810	5330	47.3	71.3	209.8	51.5	554	54	1933	76	6	150	1700	3749
-3054T	1200	2160	5580	47.3	85.1	219.7	51.5	554	54			6	150	1900	4190
-5054B	1200	1810	5900	47.3	71.3	232.3	67.6	727	54	2540	100	6	150	1900	4190
-5072B	1600			63.0			90.1	969	72			8	200	2200	4851
-5090B	2000			78.8			112.7	1212	90			10	240	2500	5513
-5108B	2400			94.5			253.5	135.2	1454			108	12	290	2700
-5054T	1200	2160	6150	47.3	85.1	242.1	67.6	727	54			6	150	2000	4410
-5072T	1600			63.0			90.1	969	72			8	200	2300	5072
-5090T	2000			78.8			112.7	1212	90			10	240	2600	5733
-5108T	2400			94.5			253.6	135.2	1454			108	12	290	3100
-5126B	2800	1810	5975	110.3	71.3	235.2	157.8	1697	126	2540	100	14	340	3200	7056
-5144B	3200			126.0			180.3	1940	144			16	390	3500	7718
-5126T	2800	2160	6275	110.3	85.1	247.1	157.8	1697	126			14	340		
-5144T	3200			126.0			180.3	1940	144			16	390	3900	8510
-5162T	3600			141.8			202.8	2182	162			18	440	4200	9261
-5180T	4000			157.5			225.4	2425	180			20	480	4700	10364
-5198T	4400			173.3			247.9	2667	198			22	530	5000	11025

● Filter: Woven filter ● Dust removal: Automatic pulse jet

B: Bottom inlet T: Top inlet



WRT-7000 Series (with a separate fan)

Model	Dimensions						Filter								No. of valves	Air supplied quantity [L/min]	Weight	
	mm			inch			Area		Quantity		Length							
											mm		inch					
	W	D	H	W	D	H	m²	ft²	Long	Short	Long	Short	Long	Short			kg	lb
WRT-7080	2000	2160	7255	78.8	85.1	285.6	132.7	1427	72	8	3500	2133	138	84	10	330	3300	7275
-7096	2400		7545	94.5		297.0	160.3	1724	88						12	400	3800	8378
-7112	2800		7795	110.3		306.9	182.5	1963	96						14	460	4300	9480
-7128	3200		8055	126.0		317.1	210.1	2260	112	16					16	530	4900	10803
-7144	3600			141.8			237.8	2558	128						18	590	5300	11685
-7160	4000			157.5			265.4	2855	144						20	660	5800	12787
-7176	4400			173.3			287.6	3094	152						22	720	6200	13669
-7192	4800		7380	189.0		290.6	315.2	3391	168	24					24	790	6600	14551
-7208	5200			204.8			342.8	3688	184						26	860	7100	15653
-7224	5600			220.5			365.1	3928	192						28	920	7500	16535
-7240	6000	236.3		392.7	4225		208	32	30	990	8000	17637						

WRT-S10000 Series (with a separate fan)

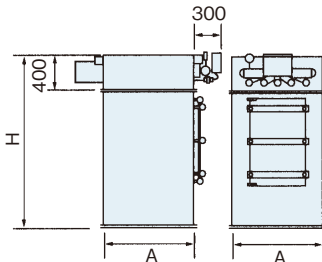
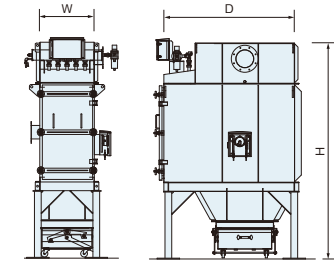
Model	Dimensions							Filter								No. of valves	Air supplied quantity [L/min]	Weight	
	mm			inch				Area		Quantity		Length							
	W	D	H	W	D	H	m²	ft²	Long	Short	mm		inch						
											Long	Short	Long	Short					
WRT-S10112	2800	2160	8900	110.3	85.1	350.4	270.6	2912.7	104	8	5080	2540	200	100	14	460	6600	14551	
-S10128	3200			126.0			310.7	3344.3	120						16	530	7200	15874	
-S10160	4000			157.5			390.9	4207.6	152						20	660	8500	18740	
-S10192	4800			189.0			461.1	4963.2	176						24	780	10000	22047	
-S10224	5600		220.5	541.2	5825.4	208	28	920	11400	25133									
-S10256	6400		9100	252.0	358.3	621.5	6689.8	240	32	1050					13100	28881			
-S10288	7200			283.5					691.6	7444.3					264	36	1170	14400	31747
-S10320	8000			315.0					771.8	8307.6					296	40	1300	15900	35054

WRT-19000 Series (with a separate fan)

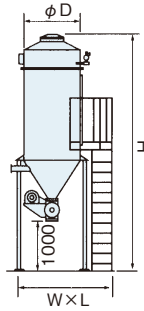
Model	Dimensions						Filter						No. of valves	Air supplied quantity [L/min]	Weight	
	mm			inch			Area		Quantity	Length		kg			lb	
	W	D	H	W	D	H	m²	ft²		mm	inch					
WRT-19320	7000	3100	10655	275.6	122.1	419.5	844.4	9085	320	5350	210	32	1360	20800	45864	
-19360	7800			307.1			950.0	10222	360			36	1520	22800	50274	
-19400	8600			338.6			1055.6	11358	400			40	1690	25400	56007	

WRT-ST

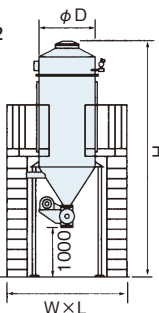
Model	Dimensions						Filter						No. of valves	Air supplied quantity [L/min]	Weight	
	mm			inch			Area		Quantity	Length		kg			lb	
	W	D	H	W	D	H	m ²	ft ²		mm	inch					
WRT-3042ST	1200	2160	5705	47.3	63.0	224.6	155.4	1672	42	1455	57	6	210	1900	4190	
-3056ST	1600			63.0			207.2	2229	56			8	280	2200	4851	
-3070ST	2000			78.8			259.0	2786	70			10	330	2500	5513	
-3084ST	2400			94.5			236.0	310.8	3344			84	12	390	2900	6395
-5042ST	1200		6500	47.3	63.0	255.9	222.6	2395	42	6	220	2100	4631			
-5056ST	1600			63.0			296.8	3193	56	8	290	2400	5292			
-5070ST	2000			78.8			371.0	3991	70	10	340	2800	6174			
-5084ST	2400			94.5			267.3	445.2	4790	84	12	410	3200	7056		
-5098ST	2800		6625	110.3	126.0	260.8	519.4	5588	98	14	480	3700	8159			
-5112ST	3200			126.0			593.6	6387	112	16	550	4000	8820			
-5126ST	3600			141.8			667.8	7185	126	18	620	4400	9702			
-5140ST	4000			157.5			742.0	7983	140	20	670	4800	10584			
-5154ST	4400		173.3	816.2	8782	154	22	730	5000	11025						



Shape 1

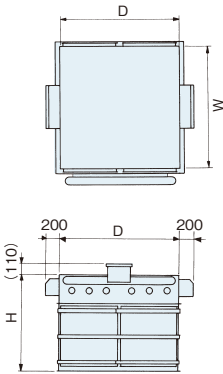


Shape 2



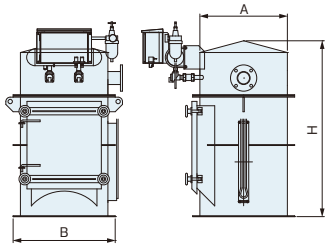
SI

Model	Dimensions						Filter						No. of valves	Air supplied quantity [L/min]	Weight	
	mm			inch			Area		Quantity	Length		kg			lb	
	W	D	H	W	D	H	m ²	ft ²		mm	inch					
SI-0502	600	1450	2465	23.7	57.1	97.0	10	107.6	10	1083	42.6	5	60	680	1500	
-1002	1100		2475	43.4		97.4	20	215.2	20			125	950	2095		
-1004			3575	43.4		140.7	40	430.5	40			8	100	1300	2866	
-2003			3025	119.1		60	645.8	60	12			150	2050	4520		
-2004	2200	1500	3575	122.1	59.1	140.7	80	861.1	80			16	200	2500	5512	
-2005			4125			162.4	100	1076.3	100			20	250	3000	6614	



PPC

●Filter: Molded filter (with jet amp) ●Dust removal: Automatic pulse jet																
Model	Dimensions						Filter				No. of valves	Air supplied quantity [L/min]	Weight			
	mm			inch			Area		Quantity	Length			kg	lb		
	W	D	H	W	D	H	m ²	ft ²		mm					inch	
PPC-1022	600	850	855	23.6	33.5	33.7	2.8	30	4	250	9.9	2	40	140	309	
-2022			1105			43.6	5.6	60		500	19.7			160	353	
-3022			1355			53.4	8.4	90		750	29.6			180	397	
-1032		850	855	23.6	33.5	33.7	4.2	45	6	250	9.9	3	55	170	375	
-2032			1105			43.6	8.4	90		500	19.7			200	441	
-3032			1355			53.4	12.6	135		750	29.6			230	508	
-1042		1200	855	47.2	47.2	33.7	5.6	60	8	250	9.9	4	75	220	486	
-2042			1105			43.6	11.2	120		500	19.7			260	574	
-3042			1355			53.4	16.8	180		750	29.6			300	662	
-1033		850	850	855	33.5	33.5	33.7	6.3	67	9	250	9.9	3	60	210	464
-2033				1105			43.6	12.6	135		500	19.7			240	530
-3033				1355			53.4	18.9	203		750	29.6			270	596
-1043	1200		855	47.2	47.2	33.7	8.4	90	12	250	9.9	4	80	260	574	
-2043			1105			43.6	16.8	180		500	19.7			300	662	
-3043			1355			53.4	25.2	271		750	29.6			350	772	
-1053	1450		855	57.1	57.1	33.7	10.5	112	15	250	9.9	5	100	320	706	
-2053			1105			43.6	21.0	225		500	19.7			370	816	
-3053			1355			53.4	31.5	338		750	29.6			420	927	
-1063	1700		855	66.9	66.9	33.7	12.6	135	18	250	9.9	6	120	360	794	
-2063			1105			43.6	25.2	271		500	19.7			420	927	
-3063			1355			53.4	37.8	406		750	29.6			480	1059	
-1044	1200	1200	855	47.2	47.2	33.7	11.2	120	16	250	9.9	4	90	350	772	
-2044			1105			43.6	22.4	241		500	19.7			410	905	
-3044			1355			53.4	33.6	361		750	29.6			470	1037	
-1054		1450	855	47.2	57.1	33.7	14.0	150	20	250	9.9	5	110	420	927	
-2054			1105			43.6	28.0	301		500	19.7			490	1081	
-3054			1355			53.4	42.0	451		750	29.6			560	1235	
-1064		1700	855	66.9	66.9	33.7	16.8	180	24	250	9.9	6	130	480	1059	
-2064			1105			43.6	33.6	361		500	19.7			560	1235	
-3064			1355			53.4	50.4	542		750	29.6			640	1412	
-1045	1450	1200	855	47.2	47.2	33.7	14.0	150	20	250	9.9	4	95	420	927	
-2045			1105			43.6	28.0	301		500	19.7			490	1081	
-3045			1355			53.4	42.0	451		750	29.6			560	1235	
-1055		1450	855	57.1	57.1	33.7	17.5	188	25	250	9.9	5	120	490	1081	
-2055			1105			43.6	35.0	376		500	19.7			570	1257	
-3055			1355			53.4	52.5	564		750	29.6			650	1434	
-1065		1700	855	66.9	66.9	33.7	21.0	225	30	250	9.9	6	140	550	1213	
-2065			1105			43.6	42.0	451		500	19.7			630	1390	
-3065			1355			53.4	63.0	677		750	29.6			720	1588	
-1046	1700	1200	855	47.2	47.2	33.7	16.8	180	24	250	9.9	4	100	460	1014	
-2046			1105			43.6	33.6	361		500	19.7			530	1169	
-3046			1355			53.4	50.4	542		750	29.6			600	1323	
-1056		1450	855	66.9	57.1	33.7	21.0	225	30	250	9.9	5	125	530	1169	
-2056			1105			43.6	42.0	451		500	19.7			610	1346	
-3056			1355			53.4	63.0	677		750	29.6			690	1522	
-1066		1700	855	66.9	66.9	33.7	25.2	271	36	250	9.9	6	150	600	1323	
-2066			1105			43.6	50.4	542		500	19.7			690	1522	
-3066			1355			53.4	75.6	813		750	29.6			780	1720	

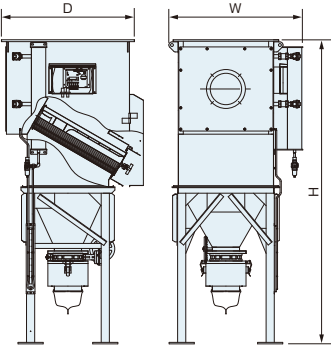


MF

MF

●Filter: Molded filter ●Dust removal: Automatic pulse jet

Model	Dimensions						Filter					No. of valves	Air supplied quantity [L/min]	Weight	
	mm			inch			Area		Quantity	Length				kg	lb
	A	B	H	A	B	H	m²	ft²		mm	inch				
MF-2003	φ500	φ600	800	19.7	23.7	31.5	4.5	48	3	500	19.7	2	30	-	-
-2004	φ600	φ700	1205	23.7	27.6	47.4	6.0	64	4				40	-	-
-2007	φ765	φ865	1250	30.2	34.1	49.2	10.5	112	7			3	50	-	-
-2012	φ1100	φ1200	1345	43.4	47.3	53.0	18.0	193	12			4	100	-	-

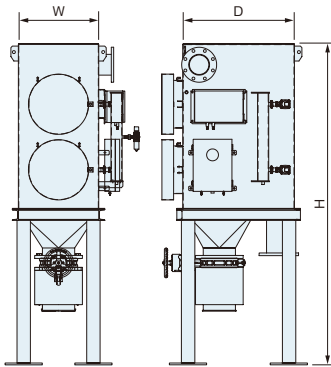


TFP

TFP

●Filter: Molded filter (with jet amp) ●Dust removal: Automatic pulse jet ●Bag-in Bag-out specifications

Model	Dimensions						Filter						No. of valves	Air supplied quantity [L/min]	Weight	
	mm			inch			Area		Quantity	Length		kg			lb	
	W	D	H	W	D	H	m ²	ft ²		mm	inch					
TFP-0201	747	1060	2472	29.5	44.5	41.7	13.5	145	2	750	29.6	2	20	210	464	
-0202	1067		2572	42.1			27.0	290	4				30	270	596	
-0302	1067		2952	42.1			40.5	435	6			3	45	320	706	
-0303	1387		3222	54.7			60.8	654	9				50	450	993	
-0402	1067		3332	42.1			54.0	581	8			4	60	370	816	
-0403	1387		3602	54.7			81.0	871	12				70	500	1103	



TFP-S

TFP-S

●Filter: Molded filter ●Dust removal: Automatic pulse jet ●Bag-in Bag-out specifications

Model	Dimensions						Filter					No. of valves	Air supplied quantity [L/min]	Weight	
	mm			inch			Area		Quantity	Length				kg	lb
	W	D	H	W	D	H	m ²	ft ²		mm	inch				
TFP-S0201	920	1034	2153	36.2	40.7	84.8	11.0	118	2	500	19.7	2	20	420	926
-S0301			2593			102.1	16.5	177	3			3	490	1081	
-S0202	1318	1034	2153	51.9	40.7	84.8	22.0	236	4	500	19.7	2	40	520	1147
-S0302			2593			102.1	33.0	355	6			3	600	1323	

HSF

Amano’s unique high-sealing rotary feeder brings low-cost and low crush rate.

This is a compact high-pressure feed system using a high-sealing rotary feeder. The dust supply section is simple compared to systems using blow pots. This is a cyclic low-speed high-concentration transfer feed system having a transfer speed of 4 to 6 meters per second so there is almost no danger of crushing. Employing a custom helical rotor drastically reduces crushing of dust particles due to bite-in.



Continuous dense phase high pressure conveyance

- Minimal crushing
- High quality material conveyance
- Compact



■ Specifications

Conveyance speed	1~15m/s
Conveyance quantity	~20t/h
Conveyance distance	~300m
Conveyance pressure	~+300kPa
Air source	Compressor

High pressure conveyance

HAF

Ideal for conveyance dust that cannot be allowed to crush and for long distance conveyance.

Plug shaped particles are pressed, moved and fed by static pressure from conveyance air feed. In the HAF system there is almost no crushing for conveying dust particles since the conveyance speed is low.



- Minimal crushing
- High quality material conveyance
- Long-distance large-volume conveyance



■ Specifications

Conveyance speed	1~15m/s
Conveyance quantity	~200t/h
Conveyance distance	~2000m
Conveyance pressure	~+700kPa
Air source	Compressor

Low pressure conveyance

LAF

Ideal for short distance conveyance or conveying from 1 to multiple locations.

By using the dynamic pressure of the conveyance air, the particles are flown through the conveyance pipe at relatively low densities. The conveyance speed is much greater than that of the high-pressure conveyance system at a typical speed of 20 to 30 m/s.



- Low cost
- Multiple conveyance



■ Specifications

Conveyance speed	15~40m/s
Conveyance quantity	~100t/h
Conveyance distance	~200m
Conveyance pressure	~+100kPa
Air source	Turbo / Roots blower

Low-pressure intake conveyance

VAF

Ideal for conveying/feeding from several locatons to one location.

By sucking both particles and air, the particles are conveyed by the air flow resulting from sub-atmospheric pressure. By using dynamic pressure of the conveyance air, the particles are lifted and transported. The conveyance air speed is typically 20 to 30 m/s. Vacuum conveyance produces cooling and drying effects on the conveyed items, and is best suited in conveying particles from narrow and deep locations.



- Low cost
- Cluster conveyance



■ Specifications

Conveyance speed	15~40m/s
Conveyance quantity	~100t/h
Conveyance distance	~200m
Conveyance pressure	~~-60kPa
Air source	Turbo / Roots blower

Dust particle handling plant

Test plant

At this plant, pneumatic conveying testing of dust provided by the customer is carried out.

The dust particle handling plant makes conveying tests of the target dust particles for conveying and accumulates data for designing an actual plant. Here, equipment is installed to allow dealing with dust by efficiently gathering data for handling diverse types of dust particles. The conveying distance can be measured from short distances of 39 meters to long distances of 184 meters. Here, 10 or more conveyance test patterns are executed to match the customer's application.



FV

Installable at a reasonable cost.
Compact pneumatic conveying feeder.



Suction type general-purpose dust conveying feeder

■ Specifications

Model	FV-3	
Suction air source	Brushless blower motor	
Power supply	3-phase 200V 50/60Hz common use	
Output	kW	2.0
	HP	2.6
Dimensions	mm	φ405×1295
	inch	16×51
Filter Quantity		1
	m²	0.7
Filter area	ft²	7.5
Dust removal	Automatic pulse jet (At fixed interval)	
Compressed air consumption	20 L/min 0.5MPa to 0.7MPa (for pulse jet)	
Compressed air coupling port	mm	6A
	inch	0.3A
Exhaust valve specifications	Weight damper method	
Control system	Electrical control	
Suction hose diameter	mm	φ38
Main material	inch	φ1.5
		SUS or SPHC
Weight	kg	80
	lb	177

FPV

Small size pneumatic conveying feeder.

No tools required for dismantling



■ Specifications

Model	FPV-40		FPV-40X		FPV-50		FPV-50X		FPV-65		FPV-65X	
Filter box	Outer diameter (nominal)	mm	φ356 (350A)		φ456 (450A)		φ558 (550A)		φ558 (550A)		φ558 (550A)	
		inch	14(350A)		18(450A)		22(550A)		22(550A)		22(550A)	
	Design withstand pressure [kPa]		-50(intake)		-50(intake)		-50(intake)		-50(intake)		-50(intake)	
Dust removal	Method		Automatic pulse jet (At fixed interval)		Automatic pulse jet (At fixed interval)		Automatic pulse jet (At fixed interval)		Automatic pulse jet (At fixed interval)		Automatic pulse jet (At fixed interval)	
	Diaphragm valve [pcs.]		1		2		3		3		3	
	Pulse jet compressed air pressure [MPa]		Normally 0.4 to 0.5		Normally 0.4 to 0.5		Normally 0.4 to 0.5		Normally 0.4 to 0.5		Normally 0.4 to 0.5	
Filter	Name		Standard filter	Resin filter	Standard filter	Resin filter	Standard filter	Resin filter	Standard filter	Resin filter	Standard filter	Resin filter
	Material		Polyester	Polyethylene	Polyester	Polyethylene	Polyester	Polyethylene	Polyester	Polyethylene	Polyester	Polyethylene
	Quantity		1	9	2	18	3	27	3	27	3	27
	Area	m²	1.17	1.07	2.34	2.13	3.50	3.20	3.50	3.20	3.50	3.20
		ft²	12.5	11.5	25.1	22.9	37.6	34.4	37.6	34.4	37.6	34.4
Section hopper	Cleaning (water-washing)		×	○	×	○	×	○	×	○	×	○
	Suction port diameter [nominal]	m	38.1 (Sanitary 1.5S ferrule)	50.8 (Sanitary 2.0S ferrule)	50.8 (Sanitary 2.0S ferrule)	63.5 (Sanitary 2.5S ferrule)	63.5 (Sanitary 2.5S ferrule)	63.5 (Sanitary 2.5S ferrule)	63.5 (Sanitary 2.5S ferrule)	63.5 (Sanitary 2.5S ferrule)	63.5 (Sanitary 2.5S ferrule)	63.5 (Sanitary 2.5S ferrule)
		inch	1.5 (Sanitary 1.5S ferrule)	2 (Sanitary 2.0S ferrule)	2 (Sanitary 2.0S ferrule)	2.5 (Sanitary 2.5S ferrule)	2.5 (Sanitary 2.5S ferrule)	2.5 (Sanitary 2.5S ferrule)	2.5 (Sanitary 2.5S ferrule)	2.5 (Sanitary 2.5S ferrule)	2.5 (Sanitary 2.5S ferrule)	2.5 (Sanitary 2.5S ferrule)
	Slope angle standard (degrees)		60		60		60		60		60	
	Exhaust port diameter		4.5S (100A)		6.5S (150A)		8.5S (200A)		8.5S (200A)		8.5S (200A)	
Electrical components	Standard (pilot valve box)		4.5S (100A)		6.5S (150A)		8.5S (200A)		8.5S (200A)		8.5S (200A)	
	Exhaust port diameter		ISO standard ferrule		ISO standard ferrule		ISO standard ferrule		ISO standard ferrule		ISO standard ferrule	
Unit material	Standard (pilot valve box)		Pulse jet board & pilot valve 200V/100V selectable specifications		Pulse jet board & pilot valve 200V/100V selectable specifications		Pulse jet board & pilot valve 200V/100V selectable specifications		Pulse jet board & pilot valve 200V/100V selectable specifications		Pulse jet board & pilot valve 200V/100V selectable specifications	
	Material		SUS304		SUS304		SUS304		SUS304		SUS304	
Surface treatment	Material		Inner/outer surface buffing (*Inner/outer surface #400)		Inner/outer surface buffing (*Inner/outer surface #400)		Inner/outer surface buffing (*Inner/outer surface #400)		Inner/outer surface buffing (*Inner/outer surface #400)		Inner/outer surface buffing (*Inner/outer surface #400)	
	Surface treatment		Inner/outer surface buffing (*Inner/outer surface #400)		Inner/outer surface buffing (*Inner/outer surface #400)		Inner/outer surface buffing (*Inner/outer surface #400)		Inner/outer surface buffing (*Inner/outer surface #400)		Inner/outer surface buffing (*Inner/outer surface #400)	
Weight		kg	Approximately 55	Approximately 55	Approximately 70	Approximately 75	Approximately 85	Approximately 95	Approximately 85	Approximately 95	Approximately 110	Approximately 120
		lb	Approximately 122	Approximately 122	Approximately 155	Approximately 166	Approximately 188	Approximately 210	Approximately 188	Approximately 210	Approximately 242	Approximately 264

Vacuum conveying system

Suction type general-purpose dust conveying feeder

Water-washable & modular design.

Tool free and easily disassemblable



- Easy installation with a compact design
- Eliminates ignition sources with a fully pneumatic design (ATEX certified)
- Improves working enviroment with a sealed structure that eliminates dust emissions
- Offers high flexibility in designing the conveyance line

■ Specifications

Model		AGR-130	AGR-150	AGR-200M	AGR-200
Cylinder diameter	mm	200	250	350	450
	inch	8	10	14	18
Overall height	mm	704	870	1016	1315
	inch	28	34	40	52
Batch capacity	L	2.5~3.0	5.5	12.9	26.0
	U.S.gallon	0.7~0.8	1.5	3.4	6.9
Conveying capacity [L/h]		100~500	500~1000	1000~2000	2000~3000
Number of filters [quantities]		1	2	4	7
Air consumption at0.55MPa[NL/min]		344~516	344~1720	516~3440	860~4300
Material of the main body		SUS316L			
Material of filters		Conductive polyester non-woven fabric with PTFE film / High-density sintered polyethylene / Stainless steel			
Weight	kg	20	30	40	50
	lb	44	66	88	110

Filter for Compact Dust Collectors

Main filter is listed. Others are also available. The listed product names and commercial names are each trademarks or registered trademarks of their companies.

Name	Standard filter (Polyester Spunbond)			
Material	Polyester			
Surface treatment	-			
Corresponding models	PiF			
Application	General dried particles (particle diameter about 10μm)			
Features	For dust having a particle diameter of about 10μm.			
	Collecting efficiency	Heat resistant temperature (F)	Dust removal	Noncombustibility
	○	normal temperature 40°C (104°)	Pulse jet	×



Name	Anti-electrostatic filter			
Material	Polyester			
Surface treatment	Stainless evaporation			
Corresponding models	PiF-D/SD			
Application	Electrostatic characteristic dust (particle diameter about 10μm)			
Features	Specifications give high charge prevention effect and make cause of dust explosions unlikely to occur.			
	Collecting efficiency	Heat resistant temperature (F)	Dust removal	Noncombustibility
	○	normal temperature 40°C (104°)	Pulse jet	×



Name	OW filter			
Material	Polyester+Acrylic resin			
Surface treatment	-			
Corresponding models	PiF			
Application	Dust including watery oil			
Features	Maintains breathability even in dust containing oily and wet particles			
	Collecting efficiency	Heat resistant temperature (F)	Dust removal	Noncombustibility
	△	normal temperature 40°C (104°)	Pulse jet	×



Name	Resin filter			
Material	High molecular weight polyethylene			
Surface treatment	Polyethylene sintering			
Corresponding models	IX · IXR · FPV · FP-N · FPV-2S			
Application	Toner fine powder (particle size 10μm or less)			
Features	For fine powders such as toner. Water-washable			
	Collecting efficiency	Heat resistant temperature (F)	Dust removal	Noncombustibility
	◎	normal temperature 40°C (104°)	Pulse jet	×



Name	Electret filter			
Material	Polyester+polyethylene+polypropylene			
Surface treatment	-			
Corresponding models	VF-5HG · VF-5HN			
Application	Fumes adhering during laser marking			
Features	Due to erect fibers on inner surface is not prone to clogging even from adhering fumes, also efficiently traps high percentage of tiny attached fumes by static electricity.			
	Collecting efficiency	Heat resistant temperature (F)	Dust removal	Noncombustibility
	◎	normal temperature 40°C (104°)	None	×



Name	Nanofiber filter			
Material	PET blend cellulose			
Surface treatment	Nanofiber film laminate			
Corresponding models	FD-10			
Application	Dried fine particles (particle diameter 10μm or less) and fumes			
Features	For dried fine particles (particle diameter 10μm or less) Flame retardance			
	Collecting efficiency	Heat resistant temperature (F)	Dust removal	Noncombustibility
	◎	normal temperature 40°C (104°)	Vibration	○



Name	Canvas filter			
Material	Cotton			
Surface treatment	-			
Corresponding models	VNA			
Application	General dried particles (particle diameter about 10μm)			
Features	For dust having a particle diameter of about 10μm.			
	Collecting efficiency	Heat resistant temperature (F)	Dust removal	Noncombustibility
	○	normal temperature 40°C (104°)	Vibration	×



Name	Canvas Finefil filter			
Material	Cotton + fluororesin porous thin film			
Surface treatment	Fluororesin porous thin film laminate processing			
Corresponding models	VNA			
Application	Dried fine particles (particle diameter 10μm or less)			
Features	For dust having a particle diameter of about 10μm or less.			
	Collecting efficiency	Heat resistant temperature (F)	Dust removal	Noncombustibility
	◎	normal temperature 40°C (104°)	Vibration	×



Name	Anti-electrostatic filter			
Material	Polyester			
Surface treatment	Metal wire net weaving			
Corresponding models	VN-SD			
Application	electrification characteristic dust (particle diameter about 10μm)			
Features	Specifications give high charge prevention effect and make cause of dust explosion unlikely to occur.			
	Collecting efficiency	Heat resistant temperature (F)	Dust removal	Noncombustibility
	○	normal temperature 40°C (104°)	Vibration	×



Name	Standard filter (Polyester Spunbond)			
Material	Polyester			
Surface treatment	-			
Corresponding models	FCN			
Application	General dried particles (particle diameter about 10μm)			
Features	For dust having a particle diameter of about 10μm.			
	Collecting efficiency	Heat resistant temperature (F)	Dust removal	Noncombustibility
	○	normal temperature 40°C (104°)	Pulse jet	×



Name	Finefil filter			
Material	Polyester			
Surface treatment	Fluororesin porous thin film laminate processing			
Corresponding models	FCN			
Application	Dried fine particles (particle diameter 10μm or less)			
Features	For dust having a particle diameter of about 10μm or less.			
	Collecting efficiency	Heat resistant temperature (F)	Dust removal	Noncombustibility
	◎	normal temperature 40°C (104°)	Pulse jet	×



Filter for Systematic Pulsejet Dust Collectors

We select and design filter for dust collectors to match the customer's application.

The listed product names and commercial names are each trademarks or registered trademarks of their companies.

Name	Tetoron felt				
Material	Polyester				
Surface treatment	Singed				
Corresponding models	WRT · BV · CT				
Application	General dried particles (particle diameter about 10μm)				
Features	General dried particles (particle diameter about 10μm) Standard filter. Most widely used item.				
	Collecting efficiency	Heat resistant temperature (F)	Acid-resistant	Alkali-proof	Noncombustibility
	○	normal temperature 120°C (248°)	△	△	×



Name	Finefil tetoron felt				
Material	Polyester				
Surface treatment	Fluororesin porous thin film laminate processing				
Corresponding models	WRT · BV · CT				
Application	General dried particles (particle diameter about 10μm)				
Features	For dried fine particles (particle diameter 10μm or less) Is preferably detachable.				
	Collecting efficiency	Heat resistant temperature (F)	Acid-resistant	Alkali-proof	Noncombustibility
	◎	normal temperature 120°C (248°)	△	△	×



Name	Tetoron felt impregnated with teflon				
Material	Polyester+impregnated fluororesin				
Surface treatment	Singed				
Corresponding models	WRT · BV · CT				
Application	Dust containing moisture (particle diameter about 10μm)				
Features	This filter has water repellency. Maintains breathability even in dust containing watery oil.				
	Collecting efficiency	Heat resistant temperature (F)	Acid-resistant	Alkali-proof	Noncombustibility
	○	normal temperature 120°C (248°)	△	△	×



Name	Pyrene felt				
Material	Polypropylene				
Surface treatment	Singed				
Corresponding models	WRT · BV · CT				
Application	Acidic, alkaline dust (particle size about 10μm)				
Features	Excellent chemical resistance				
	Collecting efficiency	Heat resistant temperature (F)	Acid-resistant	Alkali-proof	Noncombustibility
	○	normal temperature 85°C (185°)	○	○	×



Name	PPS felt				
Material	Polyphenylene sulfide				
Surface treatment	Singed				
Corresponding models	WRT · BV · CT · HGD				
Application	High-temperature dust collection (particle size about 10μm)				
Features	This filter is for high-temperature dust collection.				
	Collecting efficiency	Heat resistant temperature (F)	Acid-resistant	Alkali-proof	Noncombustibility
	○	normal temperature 160°C (320°)	○	○	△



Name	PTFE felt				
Material	Toyofuron (fluororesin fiber)				
Surface treatment	Special processing				
Corresponding models	WRT · BV · CT · HGD				
Application	High-temperature dust collection (particle size about 10μm)				
Features	This filter is for high-temperature dust collection. This filter is preferably detachable and allows air to pass. Besides it has extremely good chemical resistance.				
	Collecting efficiency	Heat resistant temperature (F)	Acid-resistant	Alkali-proof	Noncombustibility
	○	normal temperature 260°C (500°)	◎	◎	○



Name	P84				
Material	Polyimide				
Surface treatment	Singed				
Corresponding models	WRT · BV · CT · HGD				
Application	High-temperature dust collection (particle size about 10μm)				
Features	This filter is for high-temperature dust collection.				
	Collecting efficiency	Heat resistant temperature (F)	Acid-resistant	Alkali-proof	Noncombustibility
	○	normal temperature 240°C (464°)	○	○	×



Name	Tefaire				
Material	Fluororesin fiber + glass fiber				
Surface treatment	Special processing				
Corresponding models	WRT · BV · CT · HGD				
Application	High-temperature dust collection (particle size about 10μm)				
Features	This filter is for high-temperature dust collection. Extremely good trapping performance and chemical resistance.				
	Collecting efficiency	Heat resistant temperature (F)	Acid-resistant	Alkali-proof	Noncombustibility
	◎	normal temperature 230°C (446°)	◎	◎	○

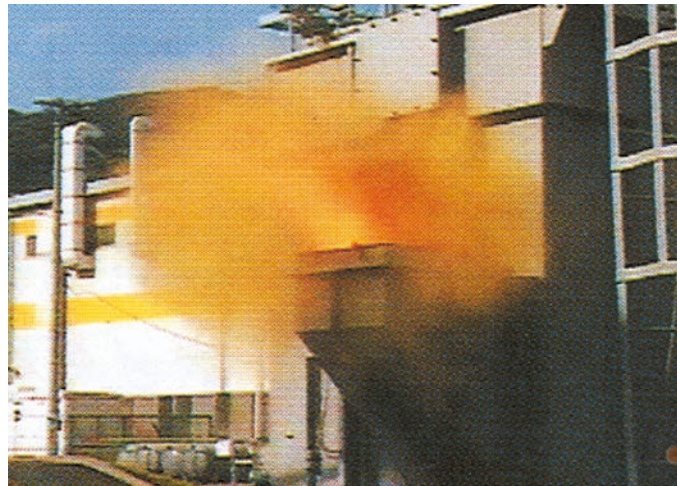


Name	Heat-resistant nylon felt				
Material	Aramid				
Surface treatment	Singed				
Corresponding models	WRT · BV · CT · HGD				
Application	High-temperature dust collection (particle size about 10μm)				
Features	This filter is for high-temperature dust collection.				
	Collecting efficiency	Heat resistant temperature (F)	Acid-resistant	Alkali-proof	Noncombustibility
	○	normal temperature 170°C (338°)	△	○	×



Do you know that...? Hazardous dust collector explosions

Dust explosion. This hazard is not as well recognized as the threat from inflammable gas and fluids. However, compared to the same volume of gas the mass is considerably larger so the explosion is huge. Each dust or powder explosion that occurs leaves behind a tremendous amount of damage and tragedy. Amano does continual R&D work into preventing these dust and powder explosions.



Three conditions leading to dust explosions

Oxygen

Dust in concentration higher than the explosion lower limit threshold

Minimum ignition energy

Dust explosions occur when the 3 conditions of "oxygen", "Dust concentration higher than explosion threshold", and "minimum ignition energy" are all present. If even just 1 of these conditions can be eliminated then dust explosions can be prevented. So the crucial point in preventing explosions is eliminating oxygen or sources of sparks.

Dust and powders that might cause explosions

- Magnesium
- Aluminum
- Aluminum light alloys
- Iron powder(non-oxidized)
- Epoxy resin
- Cornstarch
- Titanium
- Toner

Other inflammable powders

Consult Amano for dust explosion countermeasures



In client consultations for dust explosion pressure diffusion type dust collectors we always make a test analysis of the following items...

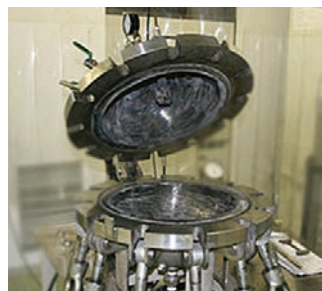
■ **Explosion index** **Kst value**

■ **Maximum explosion pressure** **Pmax**

■ **Minimum ignition energy** **MIE**

Test analysis ※To propose the best dust collector equipment.

※Tests fee will be charged Environmental Technology Co., Ltd. does the testing.



Guide to selecting hood types & required air blow quantity

■ Capture velocity determined by dust ordinances

Hood models		Capture velocity (m/s)
Enclosure type hood		0.7
External attached hood	Side intake type	1.0
	Downward intake type	1.0
	Upward intake type	1.2

※The capture velocity for the designated dust emission source may differ sometimes from the above content.

Hood installation methods	Capture velocity (m/s)
Method for enclosing entire device containing rotor	0.5
Method for covering opening in hood in a direction where dust caused by rotation of rotor might fly outwards.	5.0
Method for enclosing just the rotor	5.0
Remarks	
1. The capture velocity used in this table is called the capture velocity when all hoods on all simultaneously used local exhaust ventilation devices are open.	
2. The capture velocity used in this table is called the minimum wind velocity through the open side of the hood when the rotor is stopped.	

Hood models	Sample drawing	Airflow (m³/min)
① Enclosure type	Opening surface area : $A(m^2)=L(m) \times W(m)$ $A=\frac{\pi}{4} \cdot d^2$	$Q = 60 \cdot A \cdot V_o$ $= 60 \cdot A \cdot V_c \cdot k$ V_o : Average wind velocity at open side[m/s] V_c : Capture velocity[m/s] k : Correction coefficient for irregular wind velocity
② Externally attached type ※Circular or rectangular hood mounted in free space	$A=\frac{\pi}{4} \cdot d^2$ Distance : $X(m)$ $A=L \cdot W$ Aspect ratio : $W/L > 0.2$	$Q = 60 \cdot V_c \cdot (10X^2 + A) \cdot k$ k : Correction coefficient for disturbance flow
③ Externally attached type ※Circular or rectangular hood with flange mounted in free space	$A=\frac{\pi}{4} \cdot d^2$ $A=L \cdot W$ $W/L > 0.2$	$Q = 60 \cdot 0.75 \cdot V_c \cdot (10X^2 + A) \cdot k$ k : Correction coefficient for disturbance flow
④ Externally attached type ※Circular or rectangular canopy type hood	Canopy perimeter : $P=2(L+W)$ Height coefficient : $H/L \leq 0.3$	$Q = 60 \cdot 1.4 \cdot P \cdot H \cdot V_c \cdot k$ k : Correction coefficient for disturbance flow

■ Correction coefficient

Opening area		Correction coefficient k	
m²	ft²	Enclosure type	Externally attached type
~0.2	~2	1.1	1.2
0.3~0.5	3~5	1.2	1.3
0.6~1.0	6~10	1.3	1.4
1.1~2.0	11~21	1.3	1.5
2.1~3.0	22~32	1.4	1.5
3.1~	33~	1.5	1.5

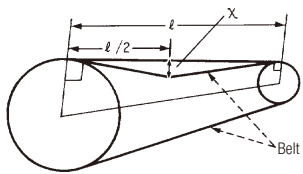
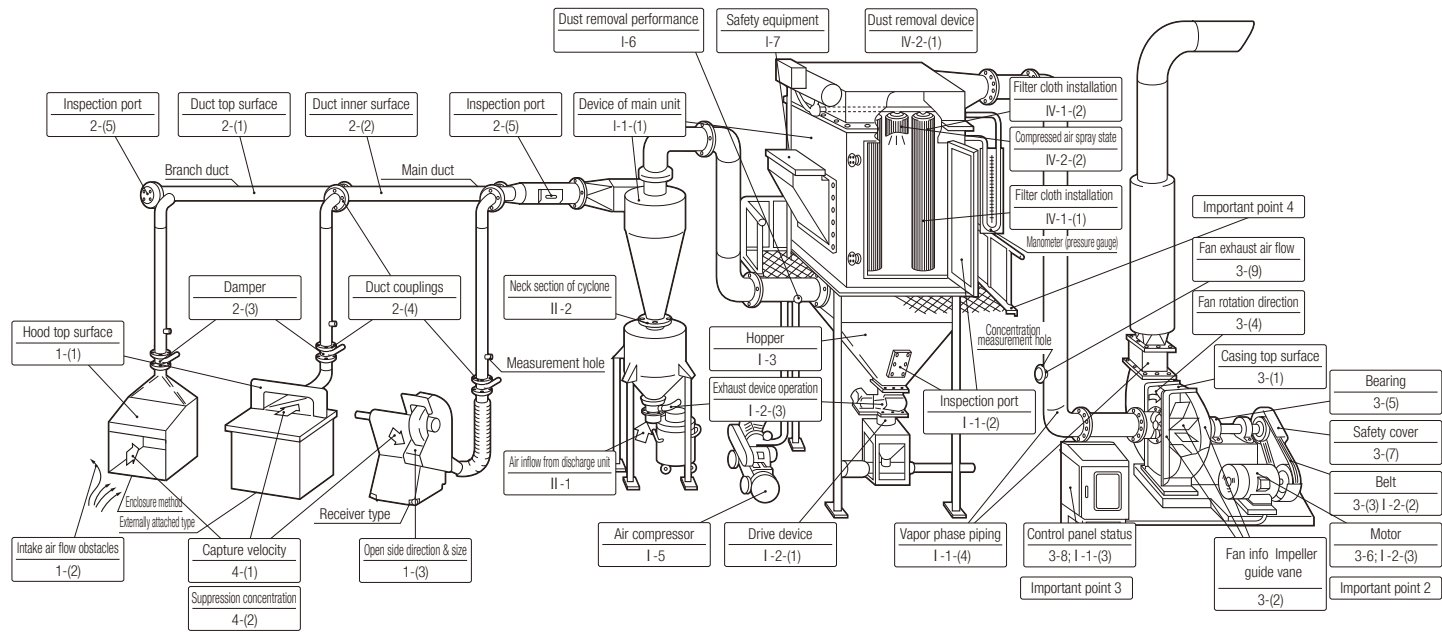
※Correction coefficient k is a given value depending on the situation.

Exhaust ventilation (dust removal) device periodic self-inspection guidelines

Autonomous inspection guidelines (Public bulletin No. 5 No. 6) based on Article 45 item 3 of the labor safety health law.

Daily inspections provide important data for pinpointing causes of equipment breakdowns, the periodic inspection table (6-month as general guide) is vital data for maintaining the equipment service life so be sure to do the daily self-inspections according to schedule.

For local exhaust (dust removal) devices, the periodic self-inspections and their records shall be filed for a period of 3 years.



Note 1 Belt slack amount (x)0.01L<x<0.02L
Note 2 Range of electric motor surface temperature and peripheral (coolant) temperature.
Inspect fan after operating for 1 hour.



1.Hood • 2.Duct • 4. intake-exhaust performance

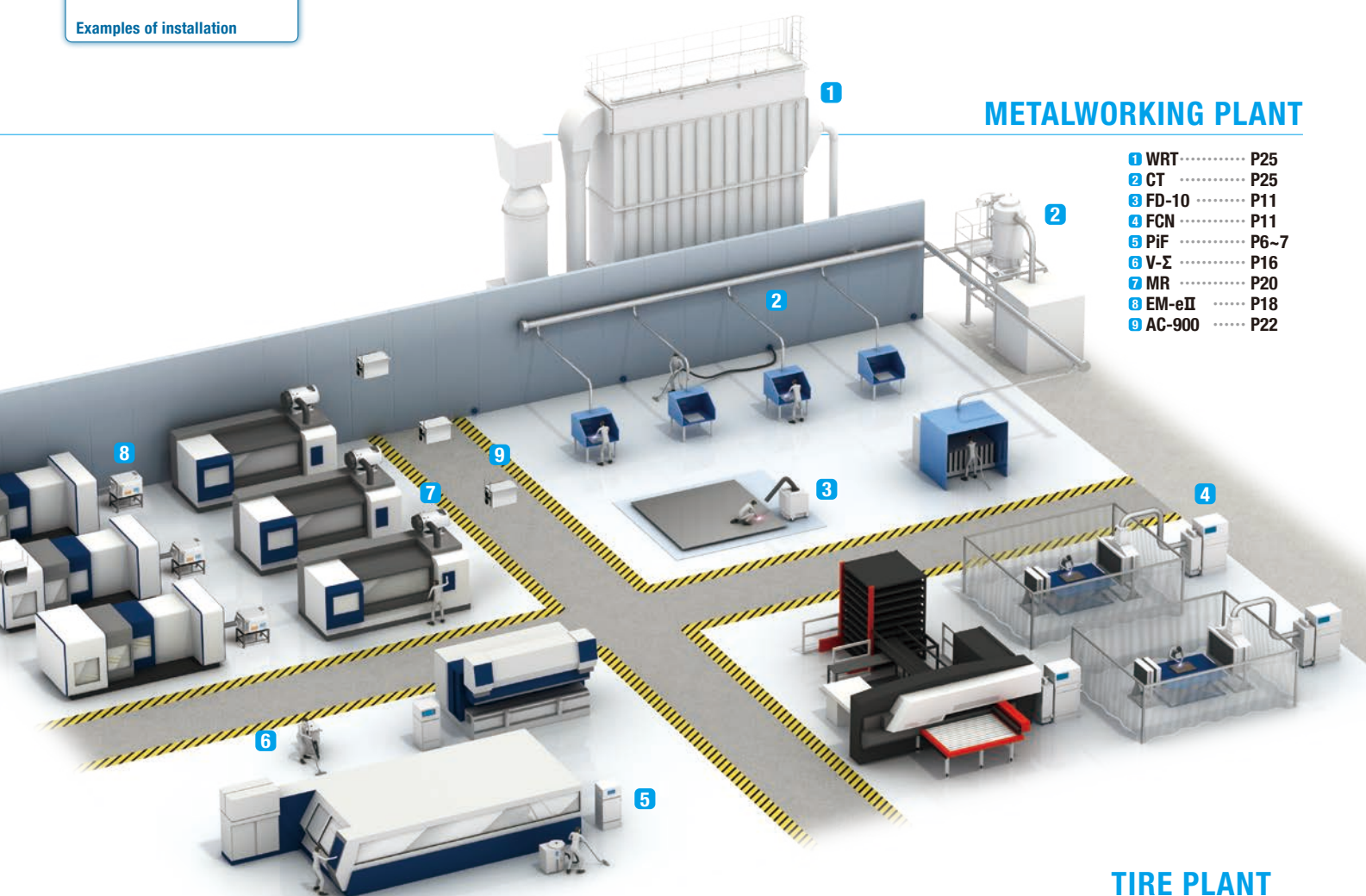
Item		Inspection item	Inspection method and tools	Judgement criteria
Hood and intake-exhaust performance	1- (1)	Check for any wear, corrosion or deformation	Visual, touch	Shall have no abnormalities that lower intake air capacity.
	1- (2)	Intake status (any impediments)	Visual, smoke tester	Shall completely suction in the air stream.
	1- (3)	Receiver type opening side direction & size	Visual	Shall be no dispersal to outside the hood.
	4- (1)	Capture velocity (at designated position)	Wind gauge	Shall be specified value or higher.
	4- (2)	Suppresion concentration (at designated position)	Shall conform to work environment measurement criteria	Shall not exceed the specified value.
Duct	2- (1)	Check for any wear, corrosion or deformation on outer surface	Visual	Shall be no air leaks, and no increased resistance
	2- (2)	Check for any breakage and dust accumulation on inner surfaces	Ultrasonic thickness gauge, manometer, stethoscope to check for surface impacts	Shall be no abnormalities due to wear, corrosion, or depositions. ● Shall be no drastic difference versus design plate thickness ● Shall be no drastic difference in design value for static pressure of duct
Damper	2- (3)	Adjustment & clamped state of air flow adjuster valve opening Cutoff operation of selector valve, etc.	Visual, smoke tester	Shall be in a state capable of maintaining performance Shall operate correctly with light force.
Coupling section	2- (4)	Check for any breakage, missing items, loosenes in coupling section	Visual, auditory, smoke tester, manometer (pressure gauge)	Shall have no air leakage and no inflow. ● Shall be no drastic difference in design value for static pressure of duct
Inspection port	2- (5)	Inspection window open/close state	Smoke tester	Opening and closing shall be smooth with no air leaks.
Safety	Important point 4	Safety measures for inspection scaffold and passage away.	Visual, safety & health regulations	Shall be no corrosion, breakage or looseness.

3. Fan and electric motor

Item		Inspection item	Inspection method and tools	Judgement criteria
Fan	3- (1)	Casing outer surface wear-corrosion and deformation	Visual	Shall be no abnormalities to impair fan functions.
	3- (2)	Check for any wear, corrosion, deformation dust adhering on the casing inner surface & impeller and guide vane.	Visual, thickness gauge, scraper	Shall be no abnormalities to impair fan functions.
Belt	3- (3)	Check for any belt wear/damage, amount of droop, pulley wear, eccentricity, rpm (when there is insufficient intake exhaust performance)	Visual, touch, scale, deflection gauge, tachometer	Shall be no breakage, eccentricity, or looseness.(See Note 1) Shall be specified RPM.
Rotation direction	3- (4)	Check direction (when intake exhaust performance is inadequate)	Visual	Shall be specified rotation direction
Fan bearing	3- (5)	Abnormal bearing sounds, temperature, oil and grease oil quantity and state of impurities	Auditory, touch, surface temperature, visual	Shall be no abnormal sounds, difference versus ambient temperate shall be 40°C(104°F) or less at a surface temperature of 70°C(158°F).
Motor	3- (6)	Status of winding and case, winding and ground terminal for insulating resistor and surface temperature	Insulation resistor tester, surface temperature meter	Shall be specified value or more. (See Note 2 for state of change in surface temperature)
Safety cover	3- (7)	State of safety covers such as for belts.	Visual, touch	Shall be no wear deformation and no looseness in installation section.
Control panel	3- (8)	Display lamp (display cover) name plate broken/missing, looseness in terminals such as causing operating defects in meters, check for discoloration, dust accumulation status	Visual, tester, clamp-meter	Shall be no breakage or missing items and no operating defects. Shall be no accumulated dust adhering
Fan exhaust air flow	3- (9)	Measure the air flow distribution within duct on inlet or outlet port, and calculate the exhaust flow quantity (when intake exhaust performance is low)	Air flow gauge, Manometer	Shall be required air flow or greater to meetjudgment criteria for intake/exhaust performance.
Safety	Important point 2,3	Safety measures for machine and electrical inspections	Safety & health regulations	Shall have hazard prevention measures installed.

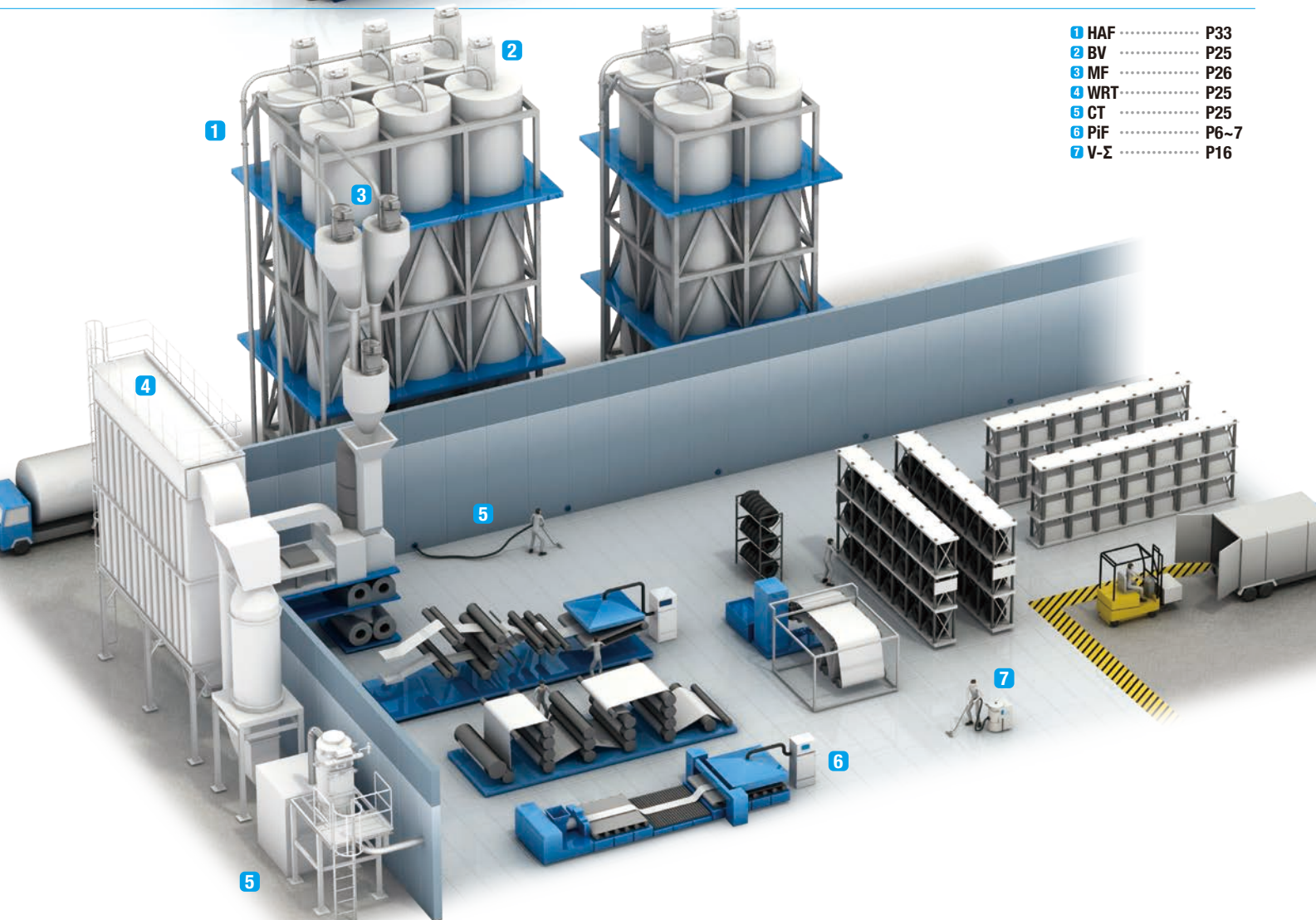
Dust removal device (Air cleaning device)

Item			Inspection item	Inspection method and tools	Judgement criteria
Dust collector	Device main unit section (including coupling duct)	I-1- (1)	Outer surface wear, corrosion, breakage, accumulated dust status	Visual (inspection door or coupling), stethoscope to check for surface impacts, ultrasonic thickness gauge, manometer, air flow meter	There shall be no abnormalities (breakage, looseness, dust, etc.) that lower the performance of the dust collector equipment.
	Inspection port	I-1- (2)	Inspection door open/close state	Touch tasks	Shall open/close smoothly and seal securely.
	Vapor phase piping	I-1- (4)	For the damper: check status of other bypass valves and flexible joints the same as 2-(3)	Visual, auditory	Shall operate smoothly and shall be no abnormalities (breakage, air leakage and dust accumulation, etc.) that lower performance
	Belt etc.	I-2- (2)	For the belt and so on: Check status of lubrication and dust adhering to other chains the same as 3-(3)	Visual	Shall be no abnormalities from dust adhering & no lack of oil.
	Hopper, exhaust damper, rotary valve, etc.	I-3	Status of external and inner sections (inspection door or impact noises) Exhaust status and operation of exhaust equipment	Visual, auditory, listen for surface impact	Shall be no dust leakage or abnormalities due to dust accumulation. Shall be no drop in smooth discharge function, operating defects, abnormal sounds, and abnormal vibration.
	Air compressor	I-5	Investigate pressure and check for abnormalities in meters Check for drain within air receiver	Visual	Pressure shall be in range of design values, and drainage shall be minimal.
	Dust removal performance	I-6	Measure the concentration in the upper and lower flow sections of main unit and find the dust removal efficiency.	Method specified in JIS-Z-8808, etc.	Design values shall be within the specified range.
	Safety equipment	I-7	Check for defects in operation of pressure dispersion vent, fire damper, interlock release valve, etc.	Touch tasks, visual	Shall operation smoothly and satisfactorily.
Cyclone type	Cyclone	II-1	Check status of air inflow at dust exhaust unit of intake type cyclone	Visual, smoke tester	Shall be no intake of smoke or dust.
		II-2	Check dust accumulation on neck section and breakage/wear status	Listen for impacts, ultrasonic thickness gauge	Shall be design thickness or higher with no abnormal deposits/accumulations.
Filtering method	Filter material	IV-1- (1)	Measure the before and after pressure differential and check for any clogs, breakage, deterioration, and dampness	Visual, touch, manometer (pressure gauge)	Shall be no abnormalities that lower filter performance, pressure differential shal be within design value range.
	Filter material installation	IV-1- (2)	Check installation status and breakage in clamping parts of omissions/uneven clamping	Visual, touch	Shall be securely tightened and in a suitable state with nothing loose or missing or drooping.
	Shakedown unit	IV-2- (1)	Check status of reverse flow fan [Same as 3-(9) for wear, corrosion, deformation, and abnormal vibration during operation & abnormal sounds	Visual, auditory	Shall operate smoothly and shall be no abnormalities breakage, abnormal vibrations or sounds that lower dust removal function.
	Compressed air spray device	IV-2- (2)	Check operation spray sounds of pilot and diaphragm valve & for water oil during compressed air, air leaks during non-spray	Auditory, check paper leakage	Shall have normal spray sounds and no air leakage sounds, and no paper leakage in air from spray nozzle.
Safety		Important point 4	Safety measures for inspection scaffold and passage away.	Visual, touch	Shall be no corrosion, breakage or looseness.



METALWORKING PLANT

- 1 WRT P25
- 2 CT P25
- 3 FD-10 P11
- 4 FCN P11
- 5 PiF P6~7
- 6 V-Σ P16
- 7 MR P20
- 8 EM-eII P18
- 9 AC-900 P22



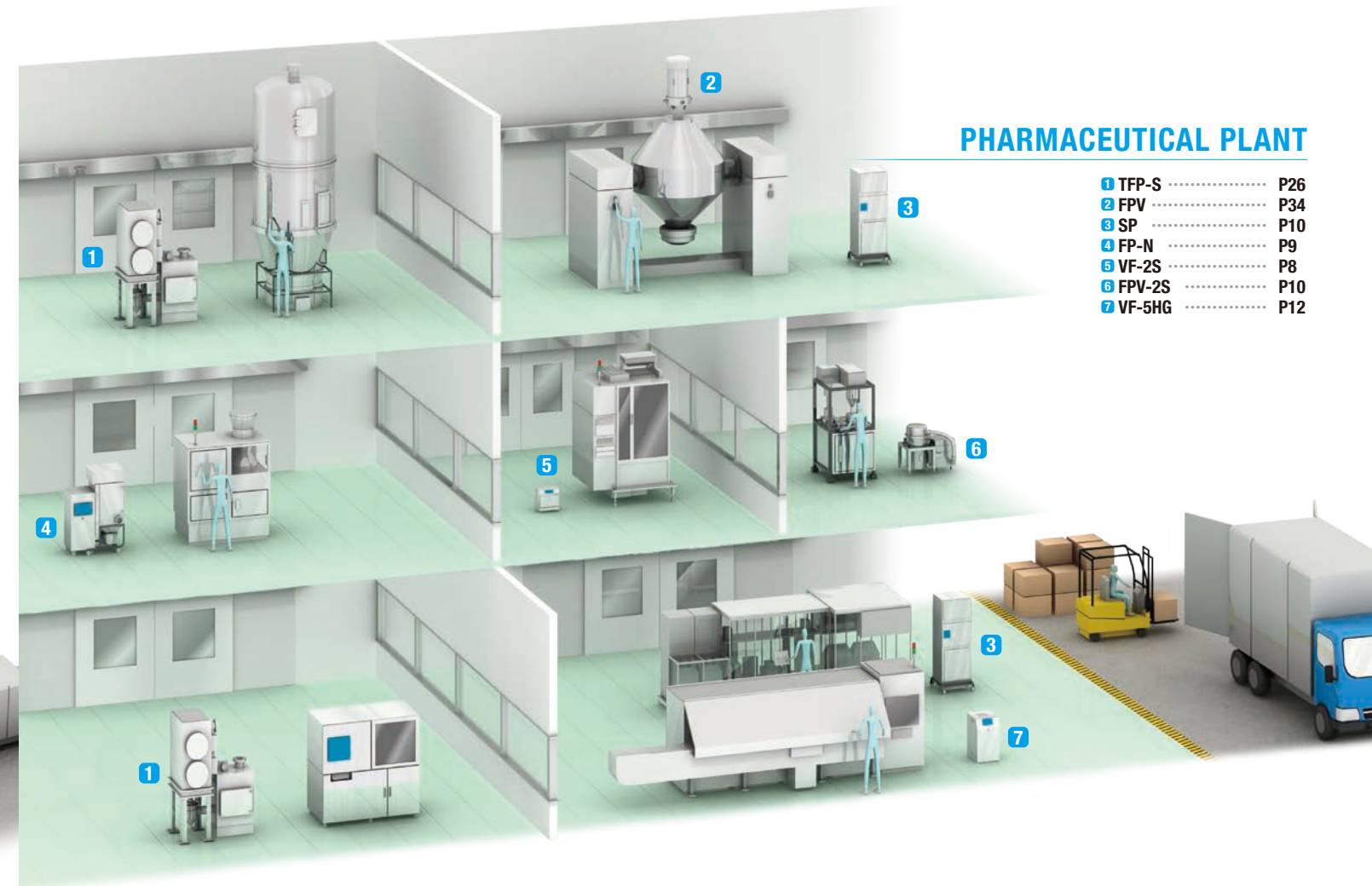
TIRE PLANT

- 1 HAF P33
- 2 BV P25
- 3 MF P26
- 4 WRT P25
- 5 CT P25
- 6 PiF P6~7
- 7 V-Σ P16



Amano environmental products

Our dust collectors, vacuum cleaners, mist collectors, pneumatic conveying systems are used in all sections of production plants. We design and provide ideal systems that meet customer needs and applications.



PHARMACEUTICAL PLANT

- 1 TFP-S P26
- 2 FPV P34
- 3 SP P10
- 4 FP-N P9
- 5 VF-2S P8
- 6 FPV-2S P10
- 7 VF-5HG P12

We also have a number of overseas delivery records. Feel free to consult us whenever you like.

■ Overseas local subsidiaries
<https://www.amano.co.jp/corp/group/overseas>



To Ensure Safe Operation

■ Information common to all models

- To ensure proper usage of this product please read the instruction manual carefully before using.
- Follow the maintenance instructions in the instruction manual to ensure that daily and periodic inspections are performed.
- If there are any regulations by laws and ordinances regarding installation and inspection, please follow those regulations.
- This device is intended for usage and transactions within Japan and the manufacturer bears no responsibility whatsoever for usage overseas.

If intending to use this device outside Japan then please consult our company beforehand.

■ Standard Dust Collectors (VNA,VF-5N,IS-15,IP, IX,IB,VF-2S,PiF,PiF-MP/HP,SP,FP-N,FPV-2S and Large-scale Dust Collectors)

- Standard model dust collectors are for collecting dust/powder that is not likely to cause fires or dust explosions.
- Do not suction the following materials:
 - Explosive materialsmagnesium, aluminum, titanium, zinc, epoxies, flour, etc.
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Sparkssparks, or dust that contains sparks
 - Fire remainscigarette stubs, ashes, etc.
 - Others.....water, oil, liquid chemicals, toxic dust such as asbestos, etc.
- In case of suctioning dust including sparks produced by polishing or cutting work, Pre-dust box is required. Consult with Amano branch office to select the appropriate model.
- This machine is not an explosion-proof type. Do not install the machine at hazardous area specified by laws.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F).
- Be sure to ground the machine to protect against electric shock.
- Be sure to use pipes with the appropriate diameter and make them as short as possible according to dust collection conditions so that dust will not accumulate in them.
- When using an antistatic filter, use a steel bucket.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket or hopper.
- As for collecting explosive dust, consult with your Amano representative, since dust explosion pressure diffusion type dust collector are available.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

■ VNA,FCN

- If piping must be connected to the exhaust port then order an item with sealed structure specifications. When connecting piping to a standard specification (non-countermeasure part) exhaust port, then air leaks might occur from the upper section of the unit.

■ Laser marking dust collector (PiF-H)

- This device collects dust from fumes and deodorizes odors from those fumes.
- Among other item, please comply with all caution items for standard dust collectors.

■ Dust explosion pressure diffusion type dust collector(VN-SD, PiF-D/SD, IX-D, IP-D)

- Dust explosion pressure diffusion type dust collector collects flammable dust (with dust explosiveness). Flammable substances, flammable gases and mixtures of flammable dust and gases can not be collected.
- Do not suction the following materials:
 - Highly combustible potentially explosive materials..... magnesium, etc.

- Flammable materials..... gasoline, thinner, benzene, kerosene, paint, etc.
- Sparks sparks, or dust that contains sparks
- Fire sources such as cigarette stubs, ashes, etc.
- Others..... water, oil, liquid chemicals, toxic dust such as asbestos, etc.
- To change the type of inflammable dust for collection, have an (fee-charging) evaluation made for the extent of dust explosiveness, and only device on dust confirmed to be collectable by this device.
- We are not responsible for any determination of dust-collecting capability in case of a dust explosion risk remains unclear or without evaluation.
- Please consult with Amano branch office and sales office about (fee-charging) evaluation of dust explosion risk.
- Dust explosion pressure diffusion type dust collectors are designed to maintain conditions under which it is difficult for explosions to occur; however, they cannot completely prevent explosions.
- Please evaluate the explosion characteristics of the target dust from the dust explosion hazard test etc., and select an acceptable model for the result.
- Dust explosion pressure diffusion type dust collectors are basically outdoor equipment designed to lower the risk during explosion force dispersion. In case the dust collectors are installed indoors,the dust explosion pressure diffusion increase the risks of damage.
- To set it up indoors, be sure take a protective measure against dust explosion (including protection wall installation, elimination of elements which hamper the diffusion of explosion pressure, etc.). Along with the measure, change it to a fire extinguishing specification to alleviate the hazard induced by explosion pressure diffusion.
- Install dust explosion pressure diffusion type dust collectors in a place where people will not be working above it. Also, do not place any factory equipment on or above the machine.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F). (system is not applicable)
- Be sure to ground the machine to protect against electrical shock and to remove static electrical charges.
- Be sure to use pipes with the appropriate diameter and make them as short as possible according to the dust collection conditions so that dust will not accumulate in them.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket or hopper.
- To prevent static buildup, do not use dust bag.
- In the event a dust explosion occurs please request an inspection by our company.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

■ Fume Collector (FD-10, HF, FCN)

- The Fume Collector FCN series is designed to collect fumes from welding or cutting as well as sparks emitted during those tasks.
- Do not suction the following materials (they could cause explosions):
 - Explosive materials... magnesium, aluminum, titanium, zinc, epoxies, flour, etc.
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Adhesive materials.....water-soluble mist, oil mist, etc.
 - Otherwater, oil, liquid chemicals, cigarette stubs, ashes, as well as toxic dust from asbestos, etc.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F).
- Be sure to ground the machine to protect against electric shock.

- Be sure to use pipes with the appropriate diameter and make them as short as possible according to dust collection conditions so that dust will not accumulate in them.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket or hopper.
- As for collecting explosive dust, consult with your Amano representative, since dust collectors equipped with anti-explosion mechanisms are available.

■ DB

- The DB series is a preprocessor device for preventing sparks from entering within the dust collector.
- Do not suction the following materials:
 - Explosive materialsaluminum, magnesium, titanium, zinc, epoxies, etc.
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Abrasive dust.....such as dust emitted from high-speed cutters and grinders, etc.
 - Fire sourcessuch as cigarette stubs, ashes, etc.
 - Otherwater, oil, liquid chemicals, paper or other combustible waste, as well as toxic dust from
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket.

■ SR

- The SR Series dust collectors are preprocessor devices designed to present dust collector filter blockages and allow a long-term filter replacement cycle.
- If the aim is spark prevention then use the bucket type.
- Do not suction up the following materials:
 - Explosive materialsaluminum, magnesium, titanium, zinc, epoxies, etc.
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Fire sourcessuch as cigarette stubs, ashes, etc.
 - Others.....water, oil, liquid chemicals, toxic dust such as asbestos, etc.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket or dust bag.

■ Industrial vacuum cleaners•concentrated cleaning systems (V-Σ,IXR,central cleaning)

- This device is for collecting ordinary dust/powder that is not likely to cause fires or dust explosions.
- Do not suction the following materials:
 - Explosive materials... magnesium, aluminum, titanium, zinc, epoxies, flour, etc.
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Sparkssparks, or dust that contains sparks
 - Fire sourcessuch as cigarette stubs, ashes, etc.
 - Other fluidssuch as water, oil, liquid chemicals, etc.
- If there is a danger of suctioning sparks when collecting flammable dust from polishing work and so forth, consult with your branch or sales office to select the appropriate model.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F).
- Be sure to ground the machine to protect against electric shock.
- Be sure to use pipes with the appropriate diameter and make them as short as possible according to dust collection conditions so that dust will not accumulate in them.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket or hopper.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

■ Dust explosion pressure diffusion type industrial vacuum cleaner (V-SDR)

- The collecting dust of the dust-explosion pressure diffusion type industrial vacuum cleaner shall be the combustible dust of which we are ensured of dust-collecting capability by the evaluation of its dust explosion hazardous characteristics.
- Do not suction the following materials:
 - Highly combustible potentially explosive materials..... magnesium, etc.
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Sparkssparks, or dust that contains sparks
 - Fire sourcessuch as cigarette stubs, ashes, etc.
 - Other fluidssuch as water, oil, liquid chemicals, etc.
- To change the type of inflammable dust for collection have an (fee-charging) evaluation made for the extent of dust explosiveness, and only use on dust confirmed to be collectable by this device.
- We are not responsible for any determination of dust-collecting capability in case of a dust explosion risk remains unclear or without evaluation.
- Please consult with Amano branch office and sales office about (fee-charging) evaluation of dust explosion risk.
- Dust explosion pressure diffusion type dust collectors are designed to maintain conditions under which it is difficult for explosions to occur; however, they cannot completely prevent explosions.
- Install dust explosion pressure diffusion type dust collectors in a place where people will not be working above it. Also, do not place any factory equipment on or above the machine.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F).
- Be sure to ground the machine to protect against electric shock and to prevent static electrical charges.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket.
- To prevent static buildup, do not use dust bag.
- In the event a dust explosion occurs please request an inspection by our company.

■ VF-2LD

- The collecting dust shall be limited to general particulates and combustible organic particulates, which are ensured the dust-collecting capability by dust explosion risk assessment as well as with dust explosibility numerically expressed as follows.

Kstvalue 300×10³kPam/s or less

Pmax: 11×10³kPa or less
- Do not suction the following materials:
 - Potentially explosive combustible dust.....magnesium, aluminum, etc.
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Sparkssparks, or dust that contains sparks
 - Others.....toxic dust such as asbestos and fluids such as liquid chemicals
- To change the inflammable organic dust targeted for collection, make an evaluation of the extent of that dust's explosiveness, and only use on dust confirmed to be collectable by this device. We are not responsible for any determination of dust-collecting capability in case of a dust explosion risk remains unclear or without evaluation.
- Please consult with Amano branch office and sales office about (fee-charging) evaluation of dust explosion risk.
- This device has a structure designed to prevent explosions however it cannot completely prevent explosions.
- Remove all combustible material within 4.7 meters above the explosion discharge port

- and utilize non-combustible material.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F).
- Always connect to ground regardless of whether operating, stopped, or performing maintenance.
- Use electrically conductive material in piping such as hoses and ducts, and satisfy the condition of a resistance value of 10⁶Ω/cm or less.
- Always connect to ground for tasks such as shakedown of dust adhering to filters and dust exhaust (discharge), and have the worker perform the tasks after removing static charges accumulated on the workers themselves.
- Do not extract buckets right after shakedown of filters where dust is adhering.
- Discharge dust collected in the bucket every day, and do not allow dust to accumulate within the bucket.
- To prevent static buildup, do not use dust packs.
- Devices where explosions occurred cannot be reused.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

■ Oil and Water-Soluble Mist Collectors (EM-eⅡ/eⅢ, EM-eH, EM-SC, MZ, MR, MS)

- This machine is designed to handle mist of water-soluble and oil based cutting fluids.
- During intake (suction) of oily mist in the MZ-MR series, attach and use the after-filter option.
- Do not suction the following materials:
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Dust or fumes
 - Fire sourcessuch as cigarette stubs, ashes, etc.
 - Other fluidssuch as water, water vapor, chemicals
 - Oil or mist with a flash point lower than 80°C(176°F)
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F).
- Use the machine at below maximum inlet concentration.
- This device cannot remove odors or gas component.
- Use the EM-eH for die casting machines.
 - Do not use in magnesium die-casting machines.
 - Do not utilize parting agents (mold lubricators) containing diluted kerosene.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Be sure to ground the machine to protect against electric shock.
- Be sure to use pipes with the appropriate diameter and make them as short as possible according to dust collection conditions so that dust will not accumulate in them.
- If you want to use the machine to suction exhaust gases from vacuum pumps, combustion engines, etc., please inform our branch or sales office of the suction conditions and find out whether or not you can use this machine.
- Perform maintenance of electrodes according to the following items.
 - Inspect for dust contamination adhering to parts at least once a week.
 - If dust or contamination has deposited up to 2mm(0.07inch) at time of inspection then wash it away.
 - Periodically wash at least once every 3 months.
- When making inspections and replacing filters and components always cut the power and check that the fan rotation has completely stopped before starting the task.
- Do not use oily detergent adhering to the collecting unit or inflammable substances for clean-

- ing the unit. Operating the unit with fluid containing inflammable substances may cause it to ignite and lead to explosions or fires.
- 【Banned inflammable substances】
 - Liquids such as gasoline, kerosene, thinner, toluene
 - Inflammable detergents (Detergents marketed under commercial names such as parts cleaners and brake cleaners)

- Use soluble detergent for oil/grease removal when cleaning the main unit and adhered oil of the collecting unit.
Always comply with the instructions listed on the detergent.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

■ Water-Soluble Mist Collectors (MC-45)

- This machine is designed to handle water-soluble mist.
- Do not suction the following materials:
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Dust or fumes
 - Fire sourcessuch as cigarette stubs, ashes, etc.
 - Other fluidssuch as water, water vapor, chemicals
 - Oily mist generated from oily cutting fluidTo suction oil mist, use another model designed to collect oil mist.
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F).
- Use machine at below maximum inlet dust concentration.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Always connect to ground to prevent electrical shocks.
- Be sure to use pipes with the appropriate diameter and make them as short as possible according to dust collection conditions so that dust will not accumulate in them.
- This device cannot remove odors or gas component.
- If piping must be connected to the exhaust (discharge) port then order an item with sealed structure specifications.
When connecting piping to a standard specification (non-contermeasure part) exhaust port, then air leaks might occur from the upper section of the unit.

■ Electrostatic Oil Mist Collector for Airborne oil mist AC-900

- This machine is designed to handle mist of water-soluble and oil based cutting fluids.
- Do not suction the following materials:
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Dust or fumes
 - Fire sources.....such as cigarette stubs, ashes, etc.
 - Other fluids.....such as water, water vapor, chemicals
 - Oil or mist with a flash point lower than 80°C(176°F)
- Do not use oily detergent adhering to the collecting unit or flammable substances for cleaning the unit.
- 【Banned flammable substances】
 - Liquids such as gasoline, kerosene, thinner, toluene
 - flammable detergents (Detergents marketed under commercial names such as parts cleaners and brake cleaners)
- Use soluble detergent for oil/grease removal when cleaning the main unit and adhered oil of the collecting unit. Always comply with the instructions listed on the detergent.

- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F).
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Always connect to ground to remove static charges and to prevent electrical shock.
- Perform maintenance of electrodes according to the following items.
 - Inspect for dust contamination adhering to parts at least once a week.
 - If dust or contamination has deposited up to 2mm(0.07inch) at time of inspection then wash it away.
- When making inspections components always cut the power and check that the fan rotation has completely stopped before starting the task.
- This device cannot remove odors or gas component.

■ SS-N

- Do not allow intake/suction of the following materials:
 - Explosive materials... magnesium, aluminum, titanium, zinc, epoxies, flour, etc.
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Fire sourcessuch as cigarette stubs, ashes, etc.
 - Adhesive materials.....Water-Soluble Mist, oil mist, etc.
 - Other fluidssuch as water, oil, liquid chemicals
- Absolutely never operate this devices if the internal water level is not at the correct level.
- Please consult Amano branch office in the case of freezing in the winter season, cold areas, and outdoor installations.
- Remove the trapped dust and discharge it every day as sludge.
Discharge the sludge according to related legal regulations as specified by each company.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Be sure to use pipes with no droop and an appropriate diameter and keep them as short as possible according to dust collection conditions so that dust will not accumulate in them.
- Always connect to ground to remove static charges and to prevent electrical shock.
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F).
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

■ VRC-N

- Do not suction the following materials:
 - Dust,Oilmist,Air containing tar
 - Air containing silicon, metal vapors (lead, zinc, mercury, etc.)
 - Air containing chlorine and other halogens, sulfur compounds, and phosphorus compounds.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Always connect to ground to remove static charges and to prevent electrical shock.
- Do not use the product with a voltage other than the power supply voltage indicated on the product.Doing so may result in fire or electric shock.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

■ Laser marking dust collectors (VF-5HG,VF-5HN)

- This machine is for collecting fumes generated by laser markers and other items and deodorizes those fumes.

- Do not suction the following materials:
 - Explosive materials... magnesium, aluminum, titanium, zinc, epoxies, flour, etc.
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Corrosive substance.....chlorine gas, chlorine-sulfuric acid gas, hydrogen fluoride, etc.
 - Sparkssparks, or dust that contains sparks
 - Fire sourcessuch as cigarette stubs, ashes, etc.
 - OtherToxic dust such as asbestos and fluid such as water, oil, liquid chemicals, etc.
- Before selecting a particular model, please consult with us beforehand if the machine must intake (suction) dust containing sparks.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Keep the operating ambient temperature between 5 and 40°C(41 and 104°F).
- Be sure to ground the machine to protect against electric shock.
- Be sure to use pipes with no droop and with an appropriate diameter and make them as short as possible according to dust collection conditions so that dust will not accumulate in them.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

■ TFP,TFP-S,HGD, Pneumatic Conveying Systems