



AMANO Corporation

ENVIRONMENTAL SYSTEMS

GENERAL CATALOG

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

www.amano.co.jp/English/environmental.html

 **AMANO Corporation**

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<http://www.amano.co.jp/English/environmental.html>

Design and specifications are subject to change without notice.

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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Compact Dust Collectors

	Low pressure (static pressure up to 3 kPa)		Mid-to-high pressure (static pressure 5kPa or more)	
	Manual vibration	Pulse jet	Manual shaking	Pulse jet
General dry dust				
For inflammable-combustible dust				
For potentially explosive power or dust <small>With explosion pressure diffusion port</small>				
Food factories and Pharmaceutical factories				
For laser markers				
Welding work				

Preprocessing device	Cyclone	
	Centrifugal pre-dust box	

Vacuum Cleaner

	Manual shaking	Pulse jet
	General dry dust	
For potentially explosive power or dust		
For toners (organic powder)		

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)

Large-scale Dust Collection Systems

	Medium and lower pressure (static pressure up to 5 kPa)		High pressure (static pressure up to 20 kPa)
	Large air volume (up to 1000m ³ /minute[3531cfm])	Medium air volume (up to 100m ³ /minute[3531cfm])	Medium air volume (up to 100m ³ /minute[3531cfm])
Plate filter			
Woven filter			
High-temperature toxic gas eliminator system			
Molded cartridge filter			
Bag-in bag-out type			
Stainless steel specifications (for highly chemical-reactive powder)			

※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 (up to 50m ³ /minute[1765cfm])			
Small air volume (up to 50m ³ /minute[1765cfm])				

Pneumatic Conveying Systems

	Pressure feed	Vacuum feed	
			Blow pot type
Large volume conveyor (up to 200 tons perhour)	High pressure (static pressure up to 20 kPa)		
	Low pressure (static pressure up to 3 kPa)		
Small volume (up to 2 tons per hour)	For foodstuff and pharmaceutical plants	Blower type	
		Ejector pump type	
	For general-purpose plants and factories	Blower type	
		Ejector pump type	

VNA

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

Dust Collectors



Specifications

Model	VNA-15	VNA-30	VNA-45	VNA-60	VNA-120	
Power supply	Frequency 50Hz or 60Hz at 3-phase 200V					
Output	0.75	1.5	2.2	3.7	7.5	
	1	2	3	5	10	
Airflow	0 7.5 12	0 15 28	0 22 40	0 30 55	0 60 110	
	0 264 423	0 529 988	0 776 1412	0 1059 1942	0 2118 3884	
Static pressure [kPa]	2.55 1.77 0.69	2.55 2.26 1.27	2.55 2.35 1.37	2.94 2.65 1.47	3.24 2.94 0.98	
Filter	Area	4.5	9.0	13.5	36.0	
		48.4	96.8	145.2	387.3	
Filter	Quantity	1	2	3	4	8
	Shape/Material	Woven plate/ canvas				
Dust removal	Manual shaking (Option: Automatic shaking type)					
Bucket capacity	L	18	25	36	50	25×4 (BS type)
	U.S.gallon	4.7	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)				
	inch	118 (4-core, without plug)				
Suction port diameter	mm	φ127	φ150	φ200	φ200	φ300
	inch	φ5	φ6	φ8	φ8	φ12
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	90	140	175	260	485
	lb	199	309	386	574	1070
Paint color	JPMA (Japan Paint Manufacturing Association) J11-833					

Woven plate filter

IS-15

Superb dust collection capability and easy handling!

Dust with a built-in cyclone



Built-in cyclone



Molded cartridge filter

Specifications

Model	IS-15			
Power supply	3-phase 50/60Hz common use			
Output	0.75			
	1			
50Hz	Airflow	0.0	6.0	9.0
		0.0	211	317
60Hz	Static pressure [kPa]	2.0	1.1	0.4
		0.0	7.5	11.0
60Hz	Airflow	0.0	264.8	388.4
		0.0	2.8	1.5
60Hz	Static pressure [kPa]	2.8	1.5	0.4
		0.0	7.5	11.0
Filter	Area	4.1		
		44.1		
Filter	Quantity	1		
	Shape/Material	Molded cartridge/Polyester Spunbond		
Dust removal	Manual shaking type			
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	φ125		
	inch	φ5		
Dimensions W×D×H	mm	649×649×1462		
	inch	25.6×25.6×57.6		
Weight	kg	70		
	lb	155		
Paint color	JPMA (JAPAN PAINT MANUFACTURING ASSOCIATION) (Body F35-85A, Top/Bottom YW40)			

VF-5N

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

Compact Dust Collectors



Compact body



Molded cartridge filter

Specifications

Model	VF-5N	VF-5NA	
Power supply	Single phase or 3-phase 50Hz or 60Hz (or voltage/frequency listed on product name plate)		
Output	0.4		
	0.5		
Airflow	0	3.5	
	0	123	
Static pressure [kPa]	2.65	1.76	
	0.98		
Filter	Area	1.6	
		17.2	
Filter	Quantity	1	
	Shape/Material	Molded cartridge/Polyester Spunbond	
Dust removal	Manual shaking type	Automatic shaking type	
Bucket capacity	L	6.5	
	U.S.gallon	1.7	
Recommended breaker [A]	15 (Single-phase) / 5 (3-phase)		
	<ul style="list-style-type: none"> • Single-phase, 2.3 (3 core with plug) • 3-phase, 2.7 (4 core without plug) • Single-phase, 90 (3 core with plug) • 3-phase, 106 (4 core without plug) 		
Power cord	m	3 (4-core, without plug)	
	inch	118 (4-core, without plug)	
Suction port diameter	mm	φ63.5	
	inch	φ2.5	
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) J11-833		

PIF

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

Energy and space-saving pulse-jet dust collectors



Pulse jet type (by differential pressure detection)

Automatic airflow control



Molded cartridge filter

- Energy Saving
- High efficiency motor
- Inverter control improves filter life
- Easy filter replacement
- Data logging function

Specifications

Model	PIF-15	PIF-30	PIF-45	PIF-60
Power supply	3-phase 50/60Hz common use			
Output	kW	0.6	2.0	3.1
	HP	0.8	1.8	2.6
Motor	Inverter type	Standard equipment		
	Efficiency	IE2 (IEC 60034-30 2P 60Hz)		
Airflow	m ³ /min	0 10 18	0 20 30	0 30 45
	cfm	0 353 635	0 706 1059	0 1059 1589
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		
	Shape	4		
Filter	Material	Molded cartridge		
	Dust removal	Automatic pulse jet type (By differential pressure detection)		
Filter	Standard	Polyester Spunbond		
Filter	Area	6.0	12.0	18.0
		64.5	129.1	193.6
Filter	Material	Base material: PET (polyethylene terephthalate) blend cellulose+surface treatment: PP (polypropylene)		
	Area	12.4	24.8	37.2
Filter	Quantity	133.4	266.8	400.2
		533.6		
Compressed air consumption [L/min]	30	36	45	67
Diaphragm valve [pcs.]	2	2	3	4
Compressed air pressure [MPa]	0.5±0.1			
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	m	3 (4-core, without plug)		
	inch	118 (4-core, without plug)		
Suction port diameter	mm	φ127	φ150	φ200
	inch	φ5	φ6	φ8
Dimensions W×D×H	mm	520×650×1155	520×650×1572	680×650×1600
	inch	20.5×25.6×45.5	20.5×25.6×61.9	26.8×25.6×63
Weight	kg	125	160	205
	lb	276	353	453
Paint color	JPMA (JAPAN PAINT MANUFACTURING ASSOCIATION) F35-85A			



Jet amplifier



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

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PIE 75N/120N/150

Pulse jet type dust collector.
Handles air flow of 60 m³/min or more.



Molded cartridge filter



Pulse jet type dust collector

Specifications

Model	PIE-75N		PIE-120N		PIE-150								
Power supply	Frequency 50Hz or 60Hz at 3-phase 200V												
Output	kW	5.5	7.5	7.5	5.5×2								
	HP	7.3	10	10	7.3×2								
Airflow	m ³ /min	0	60	90	0	80	120	0	120	180			
	cfm	0	2118	3178	0	2825	4237	0	4237	6356			
Static pressure [kPa]	m ²	3.24	2.60	0.78	3.24	2.60	0.54	3.24	2.60	0.79			
	ft ²												
Filter	Area	27	36	36	54	54							
	Quantity	12	16	16	24	24							
	Shape/Material	Molded cartridge/ Polyester Spunbond											
Dust removal		Auto pulse jet (M series: differential pressure detector J series: regular interval)											
Compressed air consumption [L/min]		46											
Diaphragm valve [pcs.]		4											
Suction port diameter		mm		φ300		mm		φ380		mm		φ15	
Recommended breaker [A]		50		60		75							
Power cord		Option (4-core)											
BO type	Dimensions	mm		1170×1071×1528		mm		1464×1174×1501		mm		1544×1654×1546	
	W×D×H	inch		46.1×42.2×60.2		inch		57.7×46.3×59.1		inch		60.8×65.2×60.9	
	Weight	kg		380		kg		415		kg		780	
BS type	Dimensions	mm		1170×1071×1818		mm		1464×1174×1871		mm		—	
	W×D×H	inch		46.1×42.2×71.6		inch		57.7×46.3×73.7		inch		—	
	Weight	kg		420		kg		510		kg		—	
Bucket	Weight	lb		927		lb		1125		lb		—	
	Bucket capacity	L		30×2		L		25×4		L		—	
	U.S.gallon	7.9×2		6.6×4		U.S.gallon		—		U.S.gallon		—	
BL type	Dimensions	mm		1170×1071×2238		mm		1464×1174×2321		mm		1544×1654×2667	
	W×D×H	inch		46.1×42.2×88.2		inch		57.7×46.3×91.4		inch		60.8×65.2×105.0	
	Weight	kg		450		kg		600		kg		890	
Hopper type	Weight	lb		993		lb		1323		lb		1963	
	Bucket capacity	L		70		L		82×2		L		70×2	
	U.S.gallon	18.4		21.6×2		U.S.gallon		18.4×2		U.S.gallon		18.4×2	
F Hopper type	Dimensions	mm		1170×1071×3358		mm		1464×1174×3601		mm		1544×1654×3817	
	W×D×H	inch		46.1×42.2×132.3		inch		57.7×46.3×141.8		inch		60.8×65.2×150.3	
	Weight	kg		650		kg		840		kg		1150	
Hopper capacity		L		1434		L		1853		L		2536	
Hopper capacity		U.S.gallon		260		U.S.gallon		500		U.S.gallon		800	
Paint color		JPMA (Japan Paint Manufacturing Association) J11-833											

PIE 200/250/300

Pulse jet type dust collector.
Handles air flow (capacity of 160m³/min or more).



Molded cartridge filter

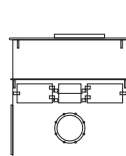


Pulse jet type dust collector

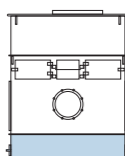
Specifications

Model	PIE-200		PIE-250		PIE-300								
Power supply	Frequency 50Hz or 60Hz at 3-phase 200V												
Output	kW	15	18.5	18.5	22								
	HP	20	25	25	30								
Airflow	m ³ /min	160	200	200	240								
	cfm	5650	7062	7062	8475								
Static pressure [kPa]	m ²	2.3	2.2	2.2	2.4								
	ft ²	75	90	90	120								
Filter	Area	807.0	968.4	968.4	1291.2								
	Quantity	30	36	36	48								
	Shape/Material	Molded cartridge (length 750mm, 48 ridge dia. 200)/ Polyester Spunbond											
Dust removal		Automatic pulse jet type (By differential pressure detection)											
Compressed air consumption [L/min]		150											
Diaphragm valve [pcs.]		6											
Bucket capacity		L											
U.S.gallon		70×2											
Recommended breakers [A]		100											
Power cord		Option (4-core)											
Suction port diameter	mm	φ450	φ500	φ500	φ580								
	inch	φ17.8	φ20	φ20	φ22.9								
Dimensions	mm	Bucket type		2080×1730×3188		mm		2320×1730×3238		mm		2320×2210×3696	
	inch	Hopper type		4032×1730×5033		inch		4272×1730×5313		inch		4772×2210×5338	
	W×D×H	Bucket type		81.9×68.2×125.6		Bucket type		91.4×68.2×127.5		Bucket type		91.4×67.1×145.6	
Hopper type		158.8×68.2×198.2		168.2×68.2×209.2		Hopper type		187.9×67.1×210.2		Hopper type		—	
Paint color		JPMA (Japan Paint Manufacturing Association) J11-833											

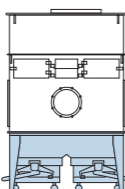
Lower section unit on dust collector is selectable to match the application.



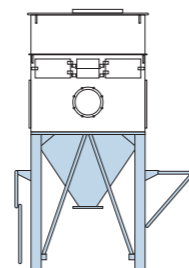
BO type (open lower section type)



BS type (standard bucket type)
*Only PIE-75N and 120N



BL type (large bucket type)



F type (hopper type)

*Performance curb are listed in standard specification sheet.Performance values might change from those shown on custom order specifications.

VF-2S

24 hour continuous operation.

- Compact
- High static pressure 20 kPa
- Energy Saving



Molded cartridge filter



Strong suction power

Powerful vacuum about 7 times greater than our small-size VF-5N dust collector.



Small High-pressure Dust Collectors



Specifications

Model	VF-2S		
Power supply	3-phase 50/60Hz common use Single-phase 100V (both 50/60Hz) available for special orders		
Output	kW	1.0	
	HP	1.3	
Blower motor Brushless blower motor			
Airflow	m ³ /min	2.7±0.3 (200V 3-phase)	2.5±0.3 (100V single-phase)
	cfm	95±10 (200V 3-phase)	88±10 (100V single-phase)
Max. static pressure [kPa]	m ²	20.0±3.0 (200V 3-phase)	17.0±2.3 (100V single-phase)
	ft ²	0.67	7.2
Filter	Quantity	1	
	Shape/Material	Molded cartridge/ Polyester Spunbond	
	Dust removal	Manual shaking type	
Bucket capacity	L	2.2	
	U.S.gallon	0.58	
Recommended breakers [A]	10 (200V 3-phase)		15 (100V single-phase)
	Power cord	m	
Suction port diameter	mm	2.8 (without plug)	
	inch	110 (without plug)	
Dimensions	mm	φ50.8	
	inch	φ2	
Weight	kg	395×342×399	
	lb	58 (3-phase 200V specification)	
Paint color		15.6×13.5×15.8	
JPMA (Japan Paint Manufacturing Association) F35-85A			

Mi/Mi-H

Medium-pressure & medium air flow model.
Simultaneously suctions in suspended particulates, high-speed dispersed powder, and heavy cutting chip.



Molded cartridge filter

Medium pressure dust collector



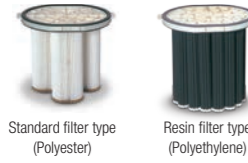
Specifications

Model	Mi-204	Mi-306	Mi-508	Mi-202	Mi-304	Mi-506	Mi-302H	Mi-504H																	
Pressure at operating point	4.0kPa type		6.0kPa type			10.0kPa type																			
Power supply	3-phase 50/60Hz common use			3-phase 50/60Hz common use			3-phase 50/60Hz common use																		
Output	kW	1.5	2.2	3.7	1.5	2.2	3.7	2.2																	
	HP	2	3	5	2	3	5	3																	
Airflow	m ³ /min	0	10.5	14	0	16	21	0	24	28	0	5.5	8.5	0	9	11.5	0	13.5	16	0	4.5	7	0	8	11
	cfm	0	370	494	0	565	741	0	847	988	0	194	300	0	317	406	0	476	565	0	158	247	0	282	388
Static pressure [kPa]	m ²	5.39	3.92	1.96	6.08	3.92	1.96	6.37	3.92	1.96	7.65	5.88	2.94	8.36	5.88	2.94	9.32	5.88	2.94	13.0	9.81	5.88	13.8	9.81	5.88
	ft ²	9.0	13.5	18.0	11.0	7.0	11.0	15.0	15.0	15.0	15.0	11.0	11.0	15.0	15.0	15.0	15.0	11.0	11.0	15.0	15.0	11.0	11.0	15.0	15.0
Filter	Quantity	4		6			8		2		4			6			2		4						
	Shape	Molded cartridge									Molded cartridge						Molded cartridge								
	Material	Polyester Spunbond									Polyester Spunbond						Polyester Spunbond								
Dust removal		Automatic pulse jet type (At regular interval)			Automatic pulse jet type (At regular interval)			Automatic pulse jet type (At regular interval)			Automatic pulse jet type (At regular interval)			Automatic pulse jet type (At regular interval)											
Compressed air consumption [L/min]		17			25			33			9			17			25			9					
Diaphragm valve [pcs.]		2			3			4			2			3			2								
Bucket capacity	L	25			35			25×2			14			25			35			14			25		
	U.S.gallon	6.6			9.2			6.6×2			3.6			6.6			9.2			3.6			6.6		
Recommended breakers [A]	Standard equipment									Standard equipment						Standard equipment									
Power cord	3 (4-core, without plug)									3 (4-core, without plug)						3 (4-core, without plug)									
Suction port diameter	mm	φ100			φ125			φ150			φ100			φ125			φ100								
	inch	φ4			φ5			φ6			φ4			φ5			φ4								
Dimensions	mm	1200×600×1150			1470×700×1180			1770×700×1180			1000×600×1144			1200×600×1150			1470×700×1180			1000×600×1150			1200×600×1150		
	inch	47.3×23.7×45.3			57.9×27.6×46.5			69.7×27.6×46.5			39.4×23.7×45.1			47.3×23.7×45.3			57.9×27.6×46.5			39.4×23.7×45.3			47.3×23.7×45.3		
Weight	kg	270			340			420			240			280			350			250			290		
	lb	596			750			927			530			618			772			552			640		
Paint color		JPMA (Japan Paint Manufacturing Association) J11-833									JPMA (Japan Paint Manufacturing Association) J11-833						JPMA (Japan Paint Manufacturing Association) J11-833								

IP/IX/IB

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

High pressure dust collector



■ Filter Unit											
Model	IP-3		IP-3D		IX-3		IX-3D		IX-5D		
Power supply	3-phase 50/60Hz common use										
Filter	Area	3.5			3.2			4.7		4.8	
	ft ²	37.6			34.4			50.5		51.6	
	Quantity	3			27			3		27	
	Shape	Molded cartridge									
Material	Polyester			polyethylene			Polyester		polyethylene		
	Automatic pulse jet type (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 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	144 184		144 184		155 195		155 195			
Paint color	JPMA (Japan Paint Manufacturing Association) (Body F35-85A, Top/Bottom YN40)										

■ Blower Unit												
Model	IB-3		IB-4		IB-5		IB-3D		IB-5D			
Power supply	Standard motor type (with inverter)					Explosion-proof sealed motor type (without inverter)						
Power supply	3-phase 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	5
	cfm	0	105	0	141	176	0	176	211	0	105	176
Static pressure [kPa]	13		12.5		23.5		21		18.5		22	
	13		12.5		23.5		21		18.5		22	
Suction port diameter	mm φ76.3					mm φ76.3						
	inch φ3					inch φ3						
Exhaust diameter	mm -					mm φ76.3						
	inch -					inch φ3						
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	750					
		D	500	500	500	430	520					
	inch	H	608	850	850	776	866					
		W	27.6	27.6	27.6	23.7	29.6					
inch	D	19.7	19.7	19.7	17.0	20.5						
	H	24.0	33.5	33.5	30.6	34.1						
Weight	kg	90		130		155		105		187		
	lb	199		287		342		232		413		
Paint color	JPMA (Japan Paint Manufacturing Association) F35-85A					JPMA (Japan Paint Manufacturing Association) F35-85A						

SP

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

Total stainless steel body dust collector



Water-washable filters available



*HEPA filter box, casters, suction straight inlet pipe available as options.

■ 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	m ³ /min	0	7.5	12.0	0	15.0	28.0	0	22.0	40.0	
	cfm	0	264	423	0	529	988	0	776	1412	
Static pressure [kPa]	2.55		1.77		0.69		2.55		2.26		
	2.55		1.77		0.69		2.55		2.26		
Filter	Area	m ²	4.5			9.0		13.5			
		ft ²	48.4			96.8		145.2			
	Quantity	1 (holds 10 pieces)		2 (holds 20 pieces)		3 (holds 30 pieces)		4 (holds 40 pieces)			
Dust removal	Woven belt/polyester (water-washable)										
	Manual shaking type										
Material (body/fan)	SUS304/aluminum				SUS304/iron						
	L	21		21		21×2		21×2			
Bucket capacity	U.S.gallon		5.5		5.5		5.5×1		5.5×1		
Recommended breakers [A]	10		15		20		30				
	10		15		20		30				
Power cord	2.8 (4-core, without plug)										
	110 (4-core, without plug)										
Suction port diameter	mm	φ127		φ150		φ200		φ200			
	inch	φ5		φ6		φ8		φ8			
Dimensions	mm	Standard type	400×650×1207		650×650×1469		850×650×1497		1180×650×1660		
		HEPR 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		
		HEPR 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	90		140		160		230			
	lb	199		309		353		508			

FP-N

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

All-stainless body medium pressure dust collector



For Pharmaceutical and Food factories



■ Specifications												
Model	FP-5N					FP-10N						
Filter type	Standard filter		Resin filter			Standard filter		Resin filter				
Power supply	3-phase 50/60Hz common use											
Output	kW	1.5				2.2						
	HP	2				3						
Airflow	m ³ /min	0	5.0	8.0	0	3.2	6.0	0	8.0	10.0		
	cfm	0	176	282	0	113	211	0	282	353		
Static pressure [kPa]	8.5		5.5		3.2		8.5		6.1			
	8.5		5.5		3.2		8.5		6.1			
Filter	Area	m ²	4.5		2.6			4.5		5.2		
		ft ²	48.4		27.9			48.4		55.9		
	Quantity	2		4			2		8			
Material	Polyester Spunbond					Polyethylene			Polyester Spunbond		Polyethylene	
	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											
	L	20		5.2			37					
Bucket capacity	U.S.gallon		15		20			9.7				
Recommended breakers	15		20			20						
	15		20			20						
Suction port diameter	mm	φ100										
	inch	φ4										
Dimensions	mm	617×966×1488		617×966×1472			617×966×1488		753×1071×1473			
	inch	24.3×38.1×58.6		24.3×38.1×58.6			24.3×38.1×58.6		29.7×42.2×58.6			
Weight	kg	190		195			200		230			
	lb	419		430			441		508			

*Performance curb are listed in standard specification sheet. Performance values might change from those shown on custom order specifications.

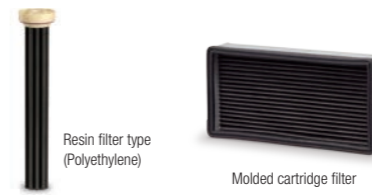
FPV-2S

Easily-washable high-pressure vacuum unit.

All-stainless body small-size dust collector



High static pressure 20 kPa



■ Filter Unit									
Power supply	3-phase 50/60Hz common use								
Area	m ²	1.07							
	ft ²	11.5							
Quantity	9								
Shape	Molded cartridge								
	Polyethylene								
Material	Manual pulse jet *								
	Manual shaking type								
Bucket capacity	L	14							
	U.S.gallon	3.6							
Suction port diameter	IDF standard ferrule 2S								
Exhaust diameter	IDF standard ferrule 2S								
Dimensions	mm	550×514×892							
	inch	21.7×20.3×35.2							
Material surface treatment	SUS304 equiv. inner/outersurface buff#400								

*Compressed air is fed by ball valve (manual). Exhaust of air-blow is a condition for backwash.

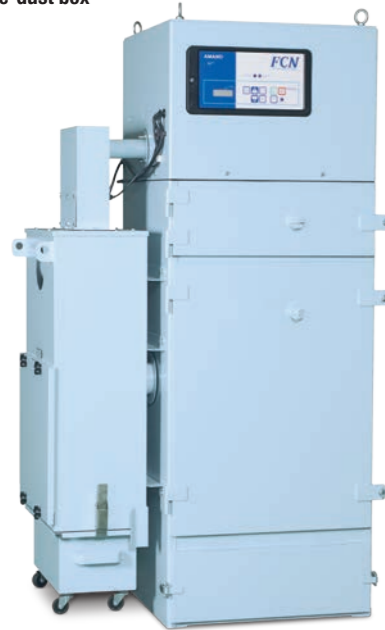
■ Blower Unit									
Power supply	3-phase 50/60Hz common use								
Output	kW	1.0							
	HP	1.3							
Blower motor	Brushless blower motor								
Max. airflow	m ³ /min	2.7±0.3							
	cfm	95±10							
Max. static pressure [kPa]	20.0±3.0								
	20.0±3.0								
Filter	Area	m ²	0.67						
		ft ²	7.2						
Quantity	1								
	Shape	Molded cartridge							
Material		Polyester Spunbond							
	Dust removal	Manual shaking type							
Bucket capacity		L	2.2						
	U.S.gallon	0.58							
Recommended breakers [A]	10								
Power cord	m	2.8 (4-core, without plug)							
	inch	110 (4-core, without plug)							
Suction port diameter	IDF standard ferrule 2S								
Dimensions	mm	395×342×591							
	inch	15.6×13.5×23.3							
Weight	kg	Approximately 31							
	lb	Approximately 69							
Material surface treatment	Exterior and coupling section are SUS304								

FCN

Dust collectors for welding work

Welding work dust collector with fire control function.

- Smoke sensor
- Spark sensor
- Pre-dust box



■ Specifications

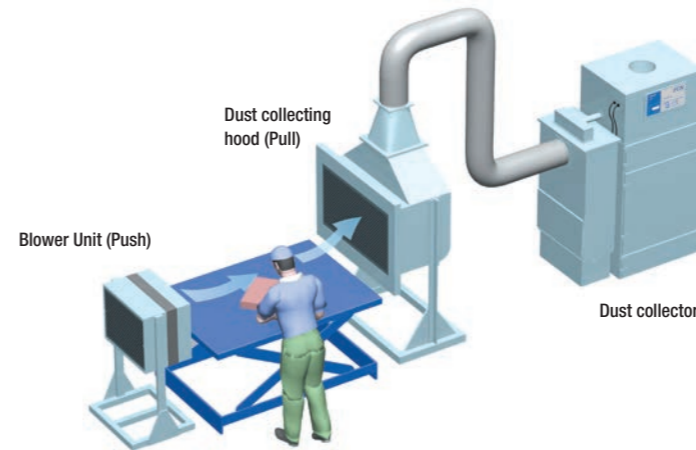
Model	FCN-30			FCN-45			FCN-60			
Power supply	Frequency 50Hz or 60Hz at 3-phase 200V									
Output	kW	1.5			2.2			3.7		
	HP	2			3			5		
Airflow	m³/min	0	12	18	0	20	30	0	30	45
	cfm	0	423	635	0	706	1059	0	1059	1589
Static pressure [kPa]		2.55	1.85	0.90	2.55	2.22	1.30	2.84	2.32	1.00
	Area	m²			m²			m²		
Filter	Quantity	27.0			40.5			60.8		
	Shape	Molded cartridge (750mm long, 132-ridge dia. 200 cylinder type)								
	Material	Polyester Spunbond								
	Dust removal	Automatic pulse jet type (At fixed interval)								
Diaphragm valve [pcs.]		2			3			3		
Compressed air consumption [L/min]		20			30			40		
		16			30			44		
Bucket capacity	L	25			18×2			20×2		
	U.S.gallon	4.2			7.9			11.6		
Recommended breakers [A]		6.6			4.7×2			5.2×2		
		15			20			30		
Power cord	m	3 (4-core, without plug)								
	inch	118 (4-core, without plug)								
Suction port diameter [mm]		φ150			φ200			φ250		
		φ6			φ8			φ10		
Dimensions W×D×H [mm]		998×651×1817			1268×660×1827			1358×840×1897		
		39.3×25.7×71.6			50.0×26.0×72.0			53.5×33.1×74.7		
Weight	kg	240			340			430		
	lb	530			750			949		
Paint color	JPMA (Japan Paint Manufacturing Association) J11-833									

HF

Push Pull Hood

Push pull dust collecting system.

Energy Saving and Compact type



■ Specifications

Model	HF-45				HF-60				HF-75				HF-150				
Power supply	3-phase 50/60Hz common use																
Output	kW	0.15				0.2				0.2				0.75			
	HP	0.2				0.26				0.26				1			
Effective outlet area	m²	0.22				0.33				0.60				1.20			
	ft²	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			
		6.7~				9.9~				18.0~				36.1~			
Range of injection airflow [50/60Hz]	m³/min	28.3/33.7				45.5/55.4				57.5/68.3				137.3/159.0			
	cfm	236~				349~				635~				1274~			
Weight	kg	60				75				125				220			
	lb	132.3				165.4				275.7				485.1			
Paint color		JPMA (Japan Paint Manufacturing Association) J11-833															
		JPMA (Japan Paint Manufacturing Association) J11-833															
Effective suction area	m²	0.32				0.45				0.78				1.74			
	ft²	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	m³/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) J11-833																

FD-10

Welding work dust collector with swing arm

Dust collector for welding work.

- Swing arm
- Caster
- Fire extinguishing mechanism



■ Specifications

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
		20.0
Filter	Area	215.2
	Quantity	2
	Shape/Material	Molded cartridge / nanofiber
	Dust removal	Manual shaking type
Suction port diameter	mm	φ160
	inch	φ6.3
Recommended breakers [A]		10
Power cord	m	5m (4-core, without plug)
	inch	196 (4-core, without plug)
Dimensions	mm	710×865×985
	inch	28.0×34.1×38.8
Weight [kg]		150
		331
Paint color	JPMA (Japan Paint Manufacturing Association) J11-833	

VF-5HG

Laser marker dedicated dust collector (with deodorizing function)

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



■ Specifications

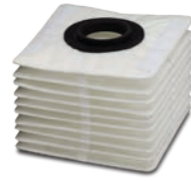
Model	VF-5HG			
Power supply	200V 3-phase		100V single-phase	
Output [kW]	kW	1.1	0.875	
	HP	1.4	1.1	
Blower motor	Brushless blower motor			
Max. airflow	m³/min	3.0±0.3	2.8±0.3	
	cfm	105±10	98±10	
Max. static pressure [kPa]		20±3.0	17±2.3	
Filter	Filtration method	Internal surface filtration		
	Area	m²	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(8.40kg)]			
Recommended breakers [A]		10	15	
Power cord	m	2.8 (without plug)		
	inch	110 (without plug)		
Air intake diameter	mm	Sold separately (uses dia 38.dia 50.dia 65)		
	inch	Sold separately (uses dia 1.5.dia 2.0.dia 2.6)		
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/minute)			

VF-5HN

Laser marker dedicated dust collector (with deodorizing function)

Low-cost laser marker dust collector.

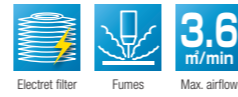
With deodorizing function



Electret filter



Activated carbon box



Specifications

Model	VF-5HN	
Power supply	200V 3-phase	100V single-phase
	50/60Hz common use	
Output	kW	0.4
	HP	0.5
Airflow	m³/min	3.6±0.2
	cfm	127±10
Max. static pressure [kPa]		2.65
Filter	Internal surface filtration	
	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]	10	15
Power cord	m	2.3 (with plug)
	inch	90 (with plug)
Air intake diameter	mm	Sold separately (uses dia 65, dia 75, dia 100)
	inch	Sold separately (uses dia 2.6, dia 3.0, dia 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	

VF-5H

Laser marker dedicated dust collector (with deodorizing function)

Zeolite precoating function delivers stable collection of fumes that tend to adhere to surfaces of filter.

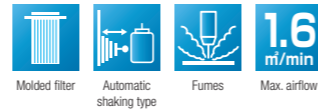
With deodorizing function



Molded cartridge filter



Powdered Filter aid (ZEOPOWER)



Specifications

Model	VF-5H	
Power supply	Frequency 50Hz or 60Hz at single-phase 100V	
Output	kW	0.4
	HP	0.5
Airflow	m³/min	1.6
	cfm	56
Max. static pressure [kPa]		2.5
Filter	Molded cartridge/ Polyester Spunbond	
	Area	m²: 1.6, ft²: 17.2
	Quantity	1
	Shape/Material	Molded cartridge/ Polyester Spunbond
Dust removal	Automatic shaking type	
Deodorant	Activated carbon (10kg)	
Filter aid [ZEOPOWER]	kg	1.6
	lb	3.6
Bucket capacity	L	3
	U.S.gallon	0.8
Recommended breakers [A]		15
Power cord [m]	m	2.3 (2-core, with plug)
	inch	90 (2-core, with plug)
Air intake diameter	mm	φ50
	inch	φ2
Dimensions W×D×H	mm	380×500×846
	inch	15.0×19.7×33.4
Weight	kg	66.8
	lb	148
Paint color	JPMA (Japan Paint Manufacturing Association) J11-833	

PIH

Laser marking dust collector

Zeolite precoating function delivers stable collection of fumes that tend to adhere to surfaces of filter.

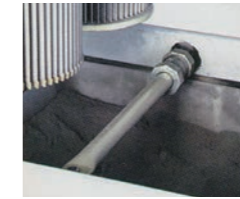
With deodorizing function



Molded cartridge filter



Activated carbon unit



Zeo-power upward agitation



Specifications

Model	PIH-30		PIH-60	
Power supply	Frequency 50Hz or 60Hz at 3-phase 200V			
Output	kW	1.5	3.7	
	HP	2	5	
Airflow	m³/min	0	10	13
	cfm	0	353	459
Static pressure [kPa]		2.74	1.07	0.49
		2.84	1.18	0.49
Filter	Area	9.0		18.0
		96.8		193.6
	Quantity	4		8
	Shape/Material	Molded cartridge/ Polyester Spunbond		
Dust removal	Automatic pulse jet type (At fixed interval)			
Compressed air consumption	Pulse: 20L /min		Pulse: 40L /min	
Pulse: Dust removal	Flash: 150L /min		Flash: 300L /min	
Flushing: ZEOPOWER	26.5 (ZEOPOWER)		26.5 (ZEOPOWER)	
Entrainment	30		30	
Filter aid	kg	6.0 (ZEOPOWER)	12.0 (ZEOPOWER)	
	lb	13.3 (ZEOPOWER)	26.5 (ZEOPOWER)	
Deodorant [12kg/one unit]	Approx. 36kg (Activated carbon)		Approx. 72kg (Activated carbon)	
Bucket capacity	L	15	30	
	U.S.gallon	3.9	7.9	
Recommended breakers [A]		15	30	
Power cord	m	3 (4-core, without plug)		
	inch	118 (4-core, without plug)		
Air intake diameter	mm	φ125	φ200	
	inch	φ5	φ8	
Dimensions W×D×H	mm	650×650×2043	1100×700×2198	
	inch	25.6×25.6×80.5	43.4×27.6×86.6	
Weight	kg	190	350	
	lb	419	772	
Paint color	JPMA (Japan Paint Manufacturing Association) J11-833			

SS-N

Wet type dust collector (Scrubber)

Scrubber for combustible dust. Wet type dust collector.

Scrubber



Raschig ring



Collection unit



Specifications

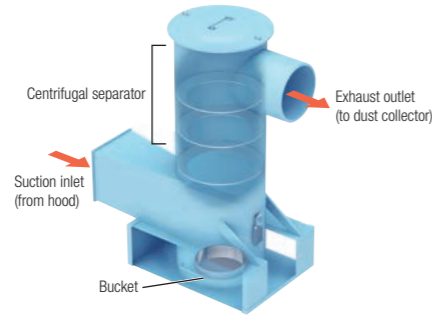
Model	SS-30N		SS-40N		SS-60N		SS-75N	
Power supply	3-phase 50/60Hz common use							
Output [kW]	kW	3.7		5.5		7.5		
	HP	5		7.3		10		
Airflow	m³/min	30	40		50		70	
	cfm	1059	1412		1765		2472	
Static pressure [kPa]	3.0							
Filler	Type	Rashig ring (porcelain)						
	Size	Dia. 10×10×thickness 2mm						
	Specific surface area	650						
		6994						
	Filling capacity	L	225	300	360	495		
		gal	59.5	79.3	95.2	130.8		
Intake /Exhaust [mm]	mm	φ200/φ200	φ250/φ250		φ300/φ300		φ350/φ350	
	inch	φ8/φ8	φ10/φ10		φ12/φ12		φ14/φ14	
Circulation tank [L]	L	330	420		510		670	
	U.S.gallon	87.1	111.0		134.7		177.0	
Demister [mm]	mm	1pc. (515×780)	2pcs. (370×780)		2pcs. (515×780)		2pcs. (615×780)	
	inch	1pc. (20.3×30.8)	2pcs. (14.7×30.8)		2pcs. (20.3×30.8)		2pcs. (24.3×30.8)	
Nozzle		4 pcs./10A	6 pcs./10A		8 pcs./10A		10 pcs./10A	
Circulating pump	Recirculating water quantity [L per minute]	30	50		75		90	
	Output	0.18		0.25		0.3		
	kW	0.2		0.3		0.4		
	HP	0.2		0.3		0.4		
Water supply	Water line 0.15MPa or higher/ball-tap (with manual ball valve 15A)							
Maximum inlet dust concentration/ maximum suction temperature	300mg/m³ at 40°C or less							
Recommended Breaker	Standard equipment							
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	600	750		850		1150	
	lb	1323	1654		1875		2536	

DB

Pre-dust box

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

Pre-dust box



Specifications

Model		DB-10	DB-20
Applicable airflow	m ³ /min	10	20
	cfm	353.1	706.2
Pressure loss	490Pa at 7.5m ³ /min		
	490Pa at 15m ³ /min		
Minimum working airflow	m ³ /min	3.5	7.0
	cfm	123.6	247.2
Dimensions W×D×H	mm	465×309×647	550×405×938
	inch	18.4×12.2×25.5	21.7×16.0×37.0
Corresponding models		VNA-15, PIF-15	VNA-30, PIF-30

Model		DB-30	DB-40
Applicable airflow	m ³ /min	30	40
	cfm	1059.4	1412.5
Pressure loss	539Pa at 22.5m ³ /min		
	588Pa at 30m ³ /min		
Minimum working airflow	m ³ /min	11.0	15.0
	cfm	388.4	529.7
Dimensions W×D×H	mm	700×501×1149	850×590×1372
	inch	27.6×19.8×45.3	33.5×23.3×54.1
Corresponding models		VNA-45, PIF-45	VNA-60, PIF-60

V-Σ

Vacuum Cleaner

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



Specifications

Model		V-2Σ	V-3Σ	V-5Σ	V-7Σ									
Power supply	Frequency 50Hz or 60Hz at 3-phase 200V													
	kW	1.5	2.2	3.7	5.5									
Output [kW]	HP	2	3	5	7.3									
Airflow	m ³ /min	0	2.0	4.2	0	2.5	5.1	0	3.3	6.0	0	3.3	6.4	
	cfm	0	70	148	0	88	180	0	116	211	0	116	226	
Static pressure [kPa]		9.81	9.32	5.39	14.7	13.2	8.04	22.1	19.1	9.81	26.0	22.6	9.81	
Filter	Molded	Area	m ²		2.0		2.6		2.6		2.6		2.6	
		Quantity	ft ²		21.5		27.9		27.9		27.9		27.9	
Filter	Woven	Area	m ²		0.7		1.2		1.2		1.2		1.2	
		Quantity	ft ²		7.5		12.9		12.9		12.9		12.9	
Bucket capacity	L	27		60		60		60		60		60		
	U.S.gallon	7.1		15.8		15.8		15.8		15.8		15.8		
Recommended breakers [A]	m	15		20		30		30		50		50		
	inch	10 (4-core, with plug)		393 (4-core, with plug)		393 (4-core, with plug)		393 (4-core, with plug)		393 (4-core, with plug)		393 (4-core, with plug)		
Power cord	mm	380×908×925		480×1252×1020		480×1252×1020		480×1252×1020		480×1252×1020		480×1252×1020		
	inch	15.0×35.8×36.5		18.9×49.3×40.2		18.9×49.3×40.2		18.9×49.3×40.2		18.9×49.3×40.2		18.9×49.3×40.2		
Suction port diameter	mm	φ38.1		φ38.1		φ38.1		φ38.1		φ38.1		φ38.1		
	inch	φ1.5		φ1.5		φ1.5		φ1.5		φ1.5		φ1.5		
Dimensions W×D×H	mm	95		104		180		180		207		207		
	inch	210		230		397		397		457		457		
Weight	kg	210		230		397		397		457		457		
	lb	210		230		397		397		457		457		
Paint color		JPMA (Japan Paint Manufacturing Association) J11-833												

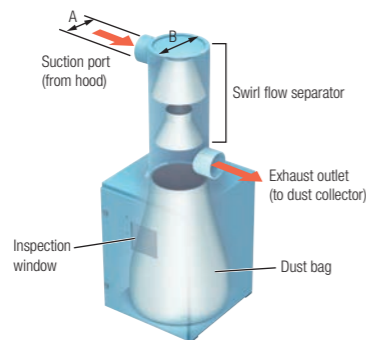


SR

Cyclone

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

Cyclone



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	400×402×1042	600×602×1485
	inch	15.8×15.9×34.7	15.8×15.9×41.1	23.7×23.8×58.5
Applicable airflow	m ³ /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

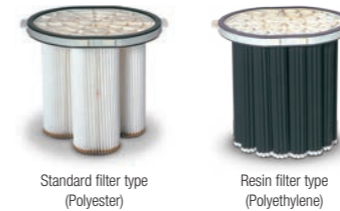
Model		SR-150	SR-200	SR-250
φA	mm	150	200	250
	inch	6	8	10
φB	mm	300	400	500
	inch	12	16	20
Dimensions W×D×H	mm	600×602×1595	900×905×2063	900×905×2302
	inch	23.7×23.8×62.8	35.5×35.7×81.3	35.5×35.7×90.7
Applicable airflow	m ³ /min	10~20	17.5~35	30~50
	cfm	353~706	618~1236	1059~1765
Corresponding models		VNA, PIF-30	VNA, PIF-45	VNA, PIF-60

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	m ³ /min	40~80	60~120
	cfm	1412~2825	2118~4237
Corresponding models		PIE-75N/120N, VNA-120	PIE-150

Pulse Jet Vacuum Cleaner

IPR/IXR

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



Specifications

Model		IPR-3	IXR-3	IPR-4	IXR-4	IPR-5	IXR-5	
Power supply	3-phase 50/60Hz common use							
	Inverter drive (6 step speed change operation)							
Output	kW	1.5	3.7	5.5	5.5	5.5	5.5	
	HP	2	5	7.3	7.3	7.3	7.3	
Max. airflow	m ³ /min	3.0	5.0	6.0	6.0	6.0	6.0	
	cfm	105	176	211	211	211	211	
Max. static pressure [kPa]		13.0	23.5	27.0	27.0	27.0	27.0	
Filter	Area	m ²	37.6	34.4	50.5	51.6	50.5	51.6
		ft ²	37.6	34.4	50.5	51.6	50.5	51.6
Filter	Quantity	Material	Polyester	Polyethylene	Polyester	Polyethylene	Polyester	Polyethylene
		Dust removal	Automatic pulse jet type (At fixed interval)					
Diaphragm valve [pcs.]		3						
Bucket capacity	L	30						
	U.S.gallon	7.9						
Recommended breakers	Standard equipment							
	m	3.5 (4-core, without plug)						
Power cord	inch	137 (4-core, without plug)						
Suction port diameter	mm	φ50.8		φ63.5				
	inch	φ2		φ2.5				
Dimensions	mm	1254×622×1258		1254×622×1458				
	inch	49.4×24.5×49.6		49.4×24.5×57.5				
Weight	kg	195	200	240	250	265	275	
	lb	430	441	530	552	585	607	
Internal compressor operating control		3-phase 50/60Hz common use						
Paint color		JPMA (Japan Paint Manufacturing Association) F35-85A (roof & bucket unit: YM40)						

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
Handles Kst value
200-160
(SDR) (7SDR)



Molded cartridge filter (Anti-electrostatic filter)



Molded filter
 Manual shaking type
 Inflammable powder/dust that might explode
 5.7 m/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	m ³ /min	0	2.4	4.8	0	2.7
	cfm	0	84	169	0	95
Static pressure [kPa]		12.4	10.9	7.9	22.6	19.7
						9.7
Filter	Area	2.0			2.6	
	ft ²	21.5			27.9	
Filter	Quantity	1				
	Shape	Molded cartridge (Anti-electrostatic filter)				
Dust removal	Manual shaking type					
Bucket capacity	L	27			60	
	U.S.gallon	7.1			15.8	
Recommended breakers [A]	20					
Power cord	m	15 (4-core, without plug)				
	inch	590 (4-core, without plug)				
Suction port diameter	mm	φ38.1				
	inch	φ1.5				
Dimensions W×D×H	mm	496×1089×1052			621×1397×1194	
	inch	19.6×42.9×41.5			24.5×55.0×47.1	
Weight	kg	141			250	
	lb	311			552	
Paint color	JPMA (Japan Paint Manufacturing Association) S11-344					

EM-8e

Electrostatic precipitator type mist collectors

Compact electric collection type mist collectors. Oil and water soluble mist.

Compact



Electrical
 Mist
 7.5 m/min Max. airflow

Specifications

Model	EM-8e		
Power supply	3-phase 50/60Hz common use		
Output	kW	0.2	
	HP	0.2	
Max. airflow	m ³ /min	50Hz	6.2
		60Hz	7.5
	cfm	50Hz	218
		60Hz	264
Max. static pressure [Pa]	50Hz	350	
	60Hz	550	
Prefilter	SUS mesh (rewashable)		
Electric collection part	Electric charge method	Positive electric charge method	
	Charging electrode type	Needle type (titanium)	
	High-voltage output	Applied voltage [kV]	10
	Current [mA]		2.0
Collecting efficiency	99(Specific gravity per filter paper)		
Max. input density [mg/m ³]	~50		
Recommended breakers [A]	3		
Power cord [m]	m	3.5 (4-core, without plug)	
	inch	137 (4-core, without plug)	
Suction port diameter [mm]	mm	Dia. 148 (Variable in 2 directions)	
	inch	Dia. 5.9 (Variable in 2 directions)	
Drainage port	Dia. 16mm non-thread screws (for insertion of inner dia. 15mm hose)		
Dimensions W×D×H [mm]	mm	459×514×570	
	inch	18.1×20.3×22.5	
Weight [kg]	kg	45	
	lb	100	
Paint color	JPMA(Japan Paint Manufacturing Association) (main unit F35-85A, door U77-60L)		

VF-2LD

Dust explosion pressure diffusion type industrial vacuum cleaner

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

Toner
Handles Kst value 300

Explosion testing See Our inhouse explosion test photos.



Molded filter
 Manual shaking type
 Inflammable powder/dust that might explode
 2.7 m/min Max. airflow



Molded cartridge (dedicated toner Fine-fill static charge)



Specifications

Model	VF-2LD	
Power supply	200V 3-phase	100V single-phase
	Frequency 50Hz or 60Hz at 3-phase 200V	
Output	kW	1.0
	HP	1.3
Airflow	m ³ /min	2.7±0.3
	cfm	95±10
Static pressure [kPa]		2.5±0.3
		88±10
Filter	Area	2.2
	ft ²	23.6
Filter	Quantity	1
	Shape	Molded cartridge (dedicated toner fine-fill static charge)
Dust removal	Manual shaking type	
Bucket capacity	L	13
	U.S.gallon	3.4
Recommended breakers [A]	10	15
Power cord	m	10.3 (4-core, without plug)
	inch	405 (4-core, without plug)
Suction port diameter	mm	φ38
	inch	φ1.5
Dimensions W×D×H	mm	430×895×1500
	inch	17.0×35.3×59.1
Weight	kg	107
	lb	236
Paint color	JPMA (Japan Paint Manufacturing Association) S11-344	

*Suction brushes, rods, hoses sold separately.

EM-eII

Electrostatic precipitator Mist Collectors

Powerful collection of highly concentrated mist up to 200mg/m². Bestseller among electric collection Mist Collectors. Operational for both oil and water soluble mist.



Electrical
 Mist
 30 m/min Max. airflow

Demister
 Charging electrode
 Collecting electrode

Specifications

Model	EM-15eII	EM-30eII	
Power supply	3-phase 50/60Hz common use		
Output	kW	0.75	
	HP	1.5	
Airflow	m ³ /min	50Hz	15 (19)
		60Hz	15 (22)
	cfm	50Hz	529 (670)
		60Hz	529 (776)
Usage point static pressure [Pa]	50Hz	350 (550)	
	60Hz	600 (750)	
Prefilter	Stainless steel wire demister		
Electric collection part	Electric charge method	(-) negative charge, 2-stage charging system	
	Charging electrode type	Needle type (titanium)	
	Electrode charging voltage HV [kV]	-10	
	Collecting electrode voltage LV [kV]	-6	
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		
Dust collection efficiency [%]	98.5 (By mass concentration measurement method on intake capacity)		
Maximum inlet dust concentration [mg/m ³]	~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	478×1000×620	
	inch	18.9×39.4×24.5	
Weight	kg	70	
	lb	155	
Paint color	JPMA(Japan Paint Manufacturing Association) (main unit F35-85A, door U77-60L)		

EM-SC

Electrostatic precipitator Mist Collectors

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



■ Specifications

Model	EM-8SC	EM-15SC	EM-30SC
Power supply	3-phase 50/60Hz common use		
Output	kW	0.4	0.75
	HP	0.5	1
Max. airflow	m ³ /min	8.0	15.0
	cfm	282	529
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		
Dust collection efficiency [%]	99 (specific gravity per filter paper)		
Maximum inlet dust concentration [mg/m ³]	~200		
Recommended breakers [A]		5	15
		10	
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]	mm	707×476×1081	872×476×1083
	inch	27.9×18.8×42.6	34.3×18.8×42.7
Weight [kg]	kg	84	105
	lb	186	232
Paint color	JPMA(Japan Paint Manufacturing Association) (main unit F35-85A, door U77-60L)		

※Suction inlet packing comes supplied with optional suction inlet.

EM-eH

Electrostatic precipitator type mist collectors

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

Max. air flow
90m³/min

■仕様

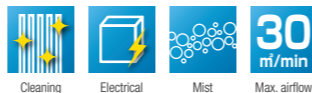
Model	EM-60eH	EM-90eH
Power supply	3-phase 50/60Hz common use	
Output	kW	5.5
	HP	7.3
Airflow	m ³ /min	0, 40, 60 (Operating point), 218 (Operating point), 3178 (Operating point)
	cfm	0, 1412, 2118 (Operating point), 276, 2118 (Operating point), 3178 (Operating point)
Static pressure [kPa]	2.23, 1.50, 0.50	2.76, 1.70, 0.27
Pre-processing	Eliminator [Q'ty]	4 pcs.
	Demister [Q'ty]	2 pcs.
Electric collection part	Charging electrode [EM-e shared]	4 pcs.
	Collecting electrode [EM-e shared]	4 pcs.
Safety measure	Fire protection damper	
Dust collection efficiency [%]	97.5 (specific gravity per filter paper) airflow at operating point	
Maximum inlet dust concentration [mg/m ³]	~50	
Recommended breakers [A]	Standard equipment	
Power cord	Option (4-core)	
Drainage port	1-inch single-ended male nipple (with valve and elbow)	
Dimensions W×D×H	mm	905×958×2186
	inch	35.7×37.8×86.1
Weight	kg	360
	lb	794
Paint color	JPMA (Japan Paint Manufacturing Association) J11-833	

with inverter

EM-SCIIIt

Electrostatic precipitator Mist Collectors

Low-priced model for EM-SC
Equipped with auto self-cleaning function only for collecting electrode



Self-Cleaning



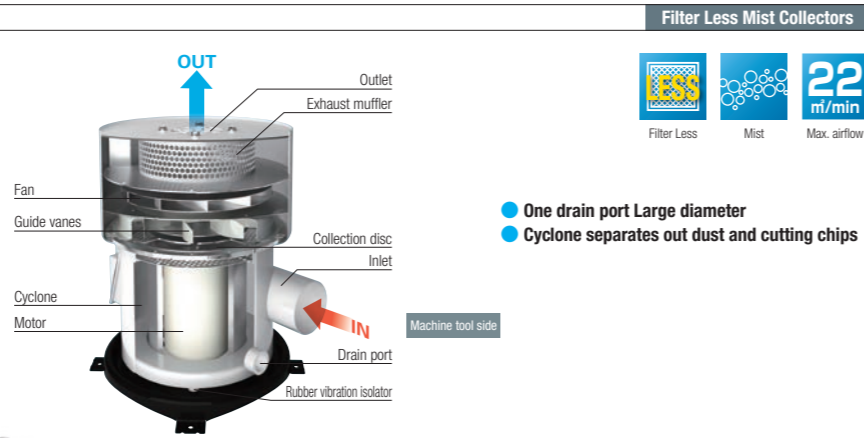
■ Specifications

Model	EM-15SCIIIt	EM-30SCIIIt	
Power supply	3-phase 50/60Hz common use		
Output	kW	0.75	
	HP	1	
Max. airflow	m ³ /min	15.0	
	cfm	529	
Max. static pressure [Pa]	500 (60Hz) / 400 (50Hz)		
Pre-processing	Stainless steel mesh		
Electric collection part	Electric charge method	(-) negative charge, 2-stage charging system	
	Charging electrode type	Needle type (titanium)	
	Electrode charging voltage HV [kV]	-10	
	Collecting electrode voltage LV [kV]	-6	
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		
Dust collection efficiency [%]	98 (specific gravity per filter paper)		
Maximum inlet dust concentration [mg/m ³]	~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	500×1231×620	
	inch	19.7×48.5×24.5	
Weight	kg	81	
	lb	178	
Paint color	JPMA(Japan Paint Manufacturing Association) (main unit F35-85A, door U77-60L)		

※Performance curb are listed in standard specification sheet.Performance values might change from those shown on custom order specifications.

MJ

No filter replacement needed.
Cyclone and trapping disk provide long term suction intake and trapping performance.



Filter Less Mist Max. airflow 22 m/min



Specifications

Model	MJ-5	MJ-10	MJ-15	MJ-25		
Power supply	3-phase 50/60Hz common use					
Output	kW	0.4	0.75	1.5	2.2	
	HP	0.5	1	2	3	
Max. airflow 50Hz/60Hz	m ³ /min	3.7/4.5	7.0/8.5	13.0/16.0	18.0/22.0	
	cfm	130/158	247/300	459/565	635/776	
Max. static pressure [kPa] 50Hz/60Hz	1.0/1.5					
Dust collection method	Cyclone + rotary collision method					
Dust collection efficiency [%]	99.9 (2.0μm particle water soluble mist)					
Objects for collection	Water soluble mist/Oil mist (after-filter is mounted in case of oil mist suction)					
Maximum inlet dust concentration [mg/m ³]	~20					
Recommended breakers [A]	5	10	15	20		
Power cord	Option (4-core)					
Suction port diameter	mm	φ98	φ123	φ148	φ198	
	inch	φ3.9	φ4.9	φ5.9	φ7.8	
Oil drainage hole	G1 (1-inch parallel pipe female threads)					
	mm	429	476	576	632	
Size	mm	Max width	453	507	589	662
		Height	16.9	18.8	22.7	24.9
	inch	Max width	17.9	20.0	23.2	26.1
		Height	38	42	60	72
Weight	kg	84	93	133	159	
	pound					
Vibration-suppression function	Rubber vibration isolator (oil-resistant)					
Paint color	JPMA (Japan Paint Manufacturing Association) (main unit F35-85A, bottom YN-40)					

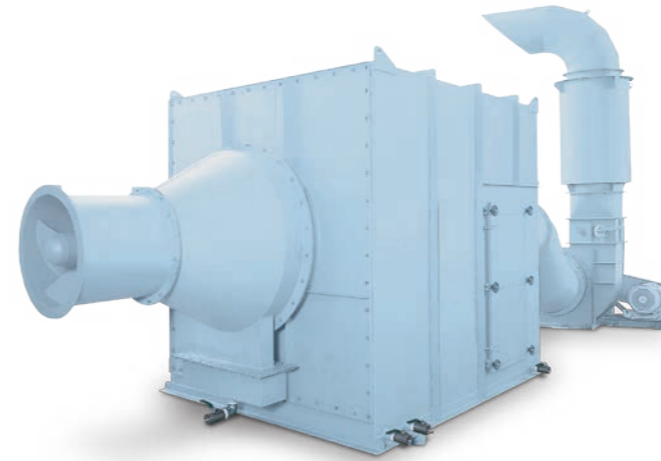
MS

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



Large air flow filter type mist collector

Filter Mist Max. airflow 400 m/min



Specifications

※ Fan motor is sold separately

Model	MS-100	MS-150	MS-200	MS-250	MS-350	MS-400		
Applicable capacity	m ³ /min	100	150	200	250	350	400	
	cfm	3531	5297	7062	8828	12360	14125	
Primary filter	Dimensions W×H×D	500×666		800×1000				
	mm	19.7×26.3		31.5×39.4				
	Quantity	16	20	24	32	40	40	
Secondary filter	Material	Sponge + particulate fiber						
	Dimensions W×H×D	610×610×290		610×760×290				
	mm	24.1×24.1×11.5		24.1×30.0×11.5				
Quantity	mm	4	6	9	12			
	inch							
Material	Glass wool							
	Water soluble mist/oil mist							
Objects for collection	Water soluble mist/oil mist							
Maximum inlet dust concentration [mg/m ³]	~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
	inch	W	128.0	143.2	180.8	186.3	208.7	212.3
		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	1,200	1,600	2,200	2,400	2,900	3,500	
	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) J11-833							

MZ

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



Filter type mist collector

Filter Mist Max. airflow 20 m/min



Easy toolless maintenance!

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



Unclamp at 2 positions and open the cover. Remove the rectifier cone unit. Remove the primary filter from the rectifier cone unit. Take out the secondary filter from the fan unit and replace with a new secondary filter.

Specifications

Model	MZ-10	MZ-15	MZ-30		
Power supply	3-phase 50/60Hz common use				
Output	kW	0.4	0.75	1.5	
	HP	0.5	1	2	
Max. airflow	m ³ /min	50Hz	8.3	10.5	20.0 (with inverter)
		60Hz	10	13	
	cfm	50Hz	293	370	706 (with inverter)
		60Hz	353	459	
Max. static pressure [kPa]	50Hz	0.9	1.0	1.8	
	60Hz	1.3	1.4		
Primary filter	Polyester (One pcs. use)				
Secondary filter	Polyester (One pcs. use)				
Dust collection efficiency [%]	99.7% and over (2μm)				
Objects for collection	Water soluble mist (intake of oily mist after mounting an after-filter available as an option)				
Maximum inlet dust concentration [mg/m ³]	~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	Dia. 16mm (2 locations) non-thread screws (use for insertion of hose)				
	mm	306×556×450	356×581×460	407×685×575	
Dimensions W×D×H	inch	12.1×21.9×17.8	14.1×22.9×18.2	16.1×27.0×22.7	
	kg	27	33	63	
Weight	lb	60	73	139	
Paint color	JPMA (Japan Paint Manufacturing Association) (main unit F35-85A, exhaust box U77-60L)				



MC-45

Medium airflow mist collector.



Filter type medium airflow mist collector

Filter Mist Max. airflow 42 m/min



Specifications

Model	MC-45			
Power supply	Frequency 50Hz or 60Hz at 3-phase 200V			
Output	kW	2.2		
	HP	3		
Airflow	m ³ /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		
Trapping target object	Water soluble mist			
Maximum inlet dust concentration [mg/m ³]	~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	180		
	lb	397		
Paint color	JPMA (Japan Paint Manufacturing Association) J11-833			

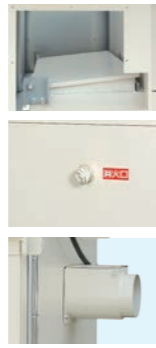
VNA-SDN

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

Effect on Kst values of 700
※Not including 60DN



Woven plate filter (Anti-electrostatic filter)



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.



Model	Kst value (x10 ⁴ kPa meters per second or less)	Pmax(x10 ⁴ kPa or less)
VNA-30SDN	700	11.5
VNA-45SDN	700	11.5
VNA-60DN	300	11.0

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	VNA-30SDN	VNA-45SDN	VNA-60DN
Power supply	Frequency 50Hz or 60Hz at 3-phase 200V		
Output	kW 1.5 HP 2	kW 2.2 HP 3	kW 3.7 HP 5
Airflow	m ³ /min 0 15 25 cfm 0 529 882	m ³ /min 0 20 40 cfm 0 706 1412	m ³ /min 0 30 55 cfm 0 1059 1942
Static pressure [kPa]	2.55 1.70 0.52	2.63 1.98 0.48	2.64 2.13 0.65
Filter	Area m ² 9.0 ft ² 96.8	13.5 145.2	18.0 193.6
	Quantity 2 Shape Woven plate (Anti-electrostatic filter)	3 Manual shaking type	4
Bucket capacity	L 22 U.S.gallon 5.8	L 35 U.S.gallon 9.2	L 25x2 U.S.gallon 6.6x2
Recommended breakers [A]	15	20	30
Power cord	5 (4-core, without plug) 196 (4-core, without plug)		
Suction port diameter	mm φ150 inch φ6	mm φ200 inch φ8	mm φ200 inch φ8
Dimensions WxDxH	mm 1020x1253x1754 inch 40.2x49.4x69.1	mm 1355x1328x1821 inch 53.4x52.3x71.7	mm 1546x1396x2055 inch 60.9x55.0x81
Weight	kg 340 lb 750	kg 400 lb 882	kg 450 lb 993
Paint color	JPMA (Japan Paint Manufacturing Association) S11-344		

※Size is only the main unit dimensions. Does not include check valve, electrical box, roof for outside specifications.
※Explosion proof motor (motor has structure that prevent intrusion of foreign objects). (VNA-30SDN, VNA-45SDN)

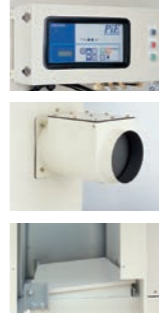
PIE-SDN

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 700
※Not including DN



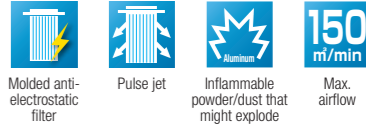
Molded cartridge filter (Anti-electrostatic filter)



Dust-proof electrical equipment box
Structure is sealed by packing to make dust explosions unlikely to occur.

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.



Model	Kst value (x10 ⁴ kPa meters per second or less)	Pmax(x10 ⁴ kPa or less)
PIE-30SDN	700	11.5
PIE-45SDN	700	11.5
PIE-60DN	300	11.0
PIE-75DN	300	11.0
PIE-120DN	300	11.0
PIE-150DN	300	11.0

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	PIE-30SDN	PIE-45SDN	PIE-60DN	PIE-75DN	PIE-120DN	PIE-150DN
Power supply	Frequency 50Hz or 60Hz at 3-phase 200V					
Output	kW 1.5 HP 2	kW 2.2 HP 3	kW 3.7 HP 5	kW 5.5 HP 7.3	kW 7.5 HP 10	kW 5.5x2 HP 7.3x2
Airflow	m ³ /min 0 15 25 cfm 0 529 882	m ³ /min 0 25 35 cfm 0 882 1236	m ³ /min 0 35 55 cfm 0 1236 1942	m ³ /min 0 50 85 cfm 0 1765 3001	m ³ /min 0 65 105 cfm 0 2295 3708	m ³ /min 0 100 150 cfm 0 3531 5297
Static pressure [kPa]	2.72 1.71 0.60	2.72 1.71 0.90	2.73 2.03 0.92	3.19 2.53 0.76	3.23 2.41 0.59	3.19 2.27 0.72
Filter	Area m ² 9.0 ft ² 96.8	13.5 145.2	18.0 193.6	27.0 290.5	36.0 387.3	54.0 581.0
	Quantity 4 Shape Molded cartridge (Anti-electrostatic filter with grounding conductor)	6	8	12	16	24
Dust removal	Automatic pulse jet type (M pressure differential detection J to fixed period)					
Compressed air consumption [L/min]	17	25	33	46	55	82
Diaphragm valve [pcs.]	2	3	4	4	4	6
Recommended breakers [A]	15	20	30	50	60	75
Power cord	m 5 (4-core, without plug) inch 196 (4-core, without plug)					
Suction port diameter	mm φ150 inch φ6	mm φ200 inch φ8	mm φ250 inch φ10	mm φ290 inch φ11.5	mm φ290 inch φ11.5	mm φ380 inch φ15
Dimensions WxDxH	mm 854x1438x1850 inch 33.7x56.7x72.9	mm 1075x1488x1907 inch 42.4x58.6x75.1	mm 1160x1244x2144 inch 45.7x49.0x84.5	BL model: 2211x1073x2615 BS model: 2211x1073x2298 BL model: 871x423x103 BS model: 871x423x90.5	BL model: 2265x1464x3300 BS model: 2265x1464x2895 BL model: 90x57.7x130 BS model: 90x57.7x114.1	BL model: 2765x1544x3683 BS model: 2765x1544x3278 BL model: 108.9x60.8x145 BS model: 108.9x60.8x141
Bucket capacity	L 22 U.S.gallon 5.8	L 35 U.S.gallon 9.2	L 25x2 U.S.gallon 6.6x2	BL model: 70x1 BS model: 30x2	BL model: 60x1 BS model: 37x2	BL model: 70x2 BS model: 18.4x2
Weight	kg 370 lb 816	kg 460 lb 1015	kg 540 lb 1191	BL model: 670 BS model: 620 BL model: 1478 BS model: 1368	BL model: 950 BS model: 890 BL model: 2095 BS model: 1963	BL model: 1410 BS model: 890 BL model: 3110 BS model: 1963
Paint color	JPMA (Japan Paint Manufacturing Association) S11-344					

※Size is only the main unit dimensions. Does not include check valve, electrical box, and roof for outside specifications.
※Explosion proof motor (motor has structure that prevent intrusion of foreign objects). (PIE-30SDN, PIE-45SDN only)

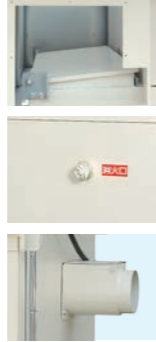
VN-SD

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

Effect on Kst values of 400



Woven plate (canvas filter plus aluminum sheet)



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.



Model	Kst value (x10 ⁴ kPa meters per second or less)	Pmax(x10 ⁴ 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 HP 2	kW 2.2 HP 3
Airflow	m ³ /min 0 15 24.5 cfm 0 529 865	m ³ /min 0 20 35 cfm 0 706 1236
Static pressure [kPa]	2.84 1.62 0.39	2.75 1.72 0.49
Filter	Area m ² 7.5 ft ² 80.7	10.0 107.6
	Quantity 3 Shape Woven plate (canvas filter plus aluminum sheet with earthing conductor)	4 Manual shaking type
Bucket capacity	L 27 U.S.gallon 7.1	L 38 U.S.gallon 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 inch φ6	mm φ200 inch φ8
Dimensions WxDxH	mm 650x850x1656 inch 25.6x33.5x65.2	mm 850x900x1812 inch 33.5x35.5x71.4
Weight	kg 220 lb 486	kg 280 lb 618
Paint color	JPMA (Japan Paint Manufacturing Association) S11-344	

※Size is only the main unit dimensions. Does not include check valve, electrical box, roof for outside specifications.
※Explosion proof motor (motor has structure that prevent intrusion of foreign objects).

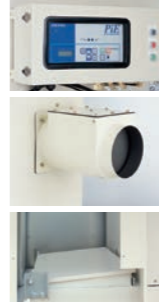
PIE-SD

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
※Not including DN



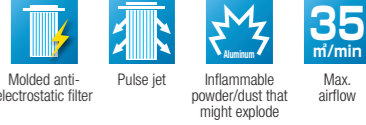
Molded cartridge filter (Anti-electrostatic filter)



Dust-proof electrical equipment box
Structure is sealed by packing to make dust explosions unlikely to occur.

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.



Model	Kst value (x10 ² kPa meters per second or less)	Pmax(x10 ² kPa or less)
PIE-30SD	400	11.5
PIE-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	PIE-30SD	PIE-45SD
Power supply	Frequency 50Hz or 60Hz at 3-phase 200V	
Output	kW 1.5 HP 2	kW 2.2 HP 3
Airflow	m ³ /min 0 15 24.5 cfm 0 529 865	m ³ /min 0 22.5 35 cfm 0 794 1236
Static pressure [kPa]	2.75 1.62 0.39	2.75 1.62 0.49
Filter	Area m ² 9.0 ft ² 96.8	13.5 145.2
	Quantity 4 Shape Molded cartridge (Anti-electrostatic filter with grounding conductor)	6 Automatic pulse jet type (By differential pressure detection)
Compressed air consumption [L/min]	17	25
Diaphragm valve [pcs.]	2	3
Bucket capacity	L 35 U.S.gallon 9.2	L 40 U.S.gallon 10.5
Recommended breakers [A]	15	20
Power cord	m 5 (4-core, without plug) inch 196 (4-core, without plug)	
Suction port diameter	mm φ150 inch φ6	mm φ200 inch φ8
Dimensions WxDxH	mm 650x850x1713 inch 25.6x33.5x67.5	mm 850x950x1748 inch 33.5x37.5x68.9
Weight	kg 260 lb 574	kg 320 lb 706
Paint color	JPMA (Japan Paint Manufacturing Association) S11-344	

※Size is only the main unit dimensions. Not including check valve, electrical box, roof for outside specifications.
※Explosion proof motor (motor has structure that prevent intrusion of foreign objects).

SNP

Space saving dust collector from the use of plate filter.

Moderate pressure large air flow



SNP-5H2W

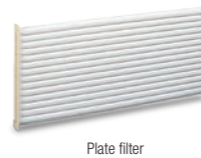


Plate filter

Pulse jet type dust collector

Plate filter Pulse jet General dry dust Filter area 450 m²

Paint color JPMA (Japan Paint Manufacturing Association) 634

See page 27 of specification table

WRT

Bestseller among large blowforce dust collectors
Large filter selection gives wide-ranging response potential

Moderate pressure large blow force



WRT-10320

Molded cartridge filter specifications for WRT-ST also available.
See page 29 of specification table



Woven filter

Pulse jet type dust collector

Woven filter Pulse jet General dry dust Filter area 1055 m²

Paint color JPMA (Japan Paint Manufacturing Association) 634

See page 27 of specification table

BV

Ideal for air bleeding from silos and hoppers.

Moderate pressure medium blow force



BV-1009



Woven filter

Pulse jet type dust collector

Woven filter Pulse jet General dry dust Filter area 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.

Moderate pressure medium blow force



CT-1008



Woven filter

Pulse jet type dust collector

Woven filter Pulse jet General dry dust Filter area 90 m²

Paint color JPMA (Japan Paint Manufacturing Association) 634

See page 30 of specification table

HGD

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

Compatible with dioxins



High temperature toxic gas removal device

We design to match customer needs.

PPC

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

Moderate pressure large blow force



PPC-3066



Molded cartridge filter

Pulse jet type dust collector

Molded filter Pulse jet General dry dust Filter area 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.

Moderate pressure medium blow force



MF-2004



Molded cartridge filter

Pulse jet type dust collector

Molded filter Pulse jet General dry dust Filter area 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

Bag-in, bag-out dust collectors

Molded filter Pulse jet General dry dust Filter area 81 m²

Paint color JPMA (Japan Paint Manufacturing Association) 634

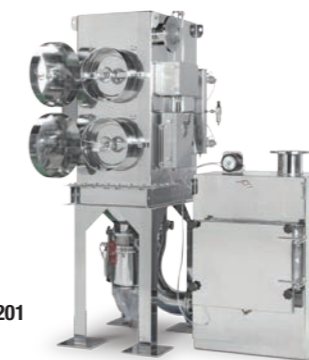
See page 32 of specification table

TFP-S

High-active pharmaceutical dust collectors.

Effective on highly-active pharmaceutical dust

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



TFP-S0201



High chemically active dust collectors

Molded filter Pulse jet High chemically active dust Filter area 33 m²

See page 32 of specification table

ACR-PK

Compact central cleaning suction source.



Molded cartridge filter



ACR-10PK



Central cleaning

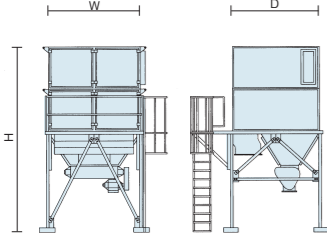
Molded filter Pulse jet General dry dust Filter area (m²) 5.6

Paint color JPMA (Japan Paint Manufacturing Association) 634

See page 32 of specification table

SNP

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

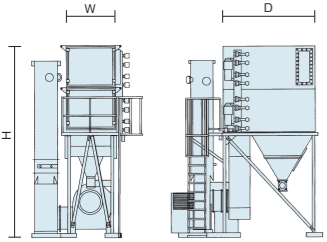


Model description

Basic unit is expressed by 1HW. 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.

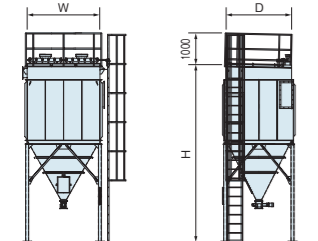
Example : SNP-3H 2W

Number of vertical units Number of horizontal units



SNP-M series fans exhaust muffler specifications

- Fans are selectable from following types. (Specify a power frequency of 50Hz/60Hz.)
- Select from among the SNP-1M
 - ...output 5.5kW-7.5kW-11kW types
 - Select from among the SNP-1M
 - ...output 11kW-15kW-18.5kW types.
- Select from among the SNP-3M
 - ...output 15kW-18.5kW-22kW-30kW types.
- Type of exhaust muffler is determined by the fan type that was selected.



SNP

Model	Dimensions						Filter area		No. of filters	No. of valves	Air supplied quantity [L/min]	Weight	
	mm			inch			m²	ft²				kg	lb
	W	D	H	W	D	H							
SNP-2H1W	1150	2182	4708	45.3	86.0	185.4	90	968	68	8	155	1550	3418
-3H1W	1150	2182	5808	45.3	86.0	228.7	135	1452	102	12	230	2100	4631
-4H1W	1150	2182	6908	45.3	86.0	272.0	180	1936	136	16	310	2500	5513
-2H2W	2300	2182	5031	90.6	86.0	198.1	180	1936	136	16	310	3100	6836
-3H2W	2300	2182	6131	90.6	86.0	241.4	270	2905	204	24	460	4200	9261
-4H2W	2300	2182	7231	90.6	86.0	284.7	360	3873	272	32	615	5100	11246
-5H2W	2300	2344	8331	90.6	92.3	328.0	450	4842	340	40	770	6300	13892

SNP-M Series (General purpose filtration system)

Model	Filter area	SNP-1M			SNP-2M			SNP-3M		
		m²	ft²	No. of filter	Dimensions W×D×H	kg	lb	No. of valves	Air supplied quantity [L/min]	
		45	484	34	1150×2182×3608	1200	2646	4	80	
		90	968	68	1150×2182×4708	1650	3639	8	155	
		135	1452	102	1150×2182×5808	2200	4851	12	230	
					45.3×86.0×142.1					
					45.3×86.0×185.4					
					45.3×86.0×228.7					
					1200					
					2646					
					1200					
					4					
					80					

Model application range		Applicable model: SNP-1M			Applicable model: SNP-2M			Applicable model: SNP-3M		
Output	kW	5.5	7.5	11	15	18.5	22	30		
	HP	7.3	10	15	20	25	30	40		
Airflow	m³/min	45	65	90	135	180	200	270		
	cfm	1589	2295	3178	4767	6356	7062	9534		
Static pressure [kPa]		3.92								
Shape		Single inlet type turbo fan (motor direct-coupled type)								
Auxiliaries		Manually airflow adjusting valve								
Type of exhaust silencer	Exhaust pipe diameter	mm			mm			mm		
		φ380			φ550			φ650		
		inch			φ21.7			φ25.6		
	Noise suppression	10 dB (A) reduction from original fan noise								

WRT

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

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

B: Bottom inlet T: Top inlet

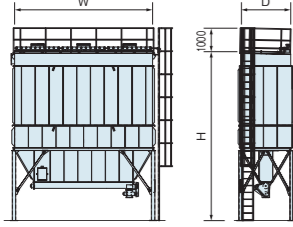
Model	Dimensions						Filter area		No. of filters	Filter length		No. of valves	Air supplied quantity [L/min]	Weight	
	mm			inch			m²	ft²		mm	inch			kg	lb
	W	D	H	W	D	H									
WRT-3054B	1200	1810	5185	47.3	71.3	204.2	51.5	554	54	1933	76	6	150	1700	3749
-3072B	1600	1810	5185	63.0	71.3	204.2	68.6	738	72	1933	76	8	200	2000	4410
-3090B	2000	1810	5185	78.8	71.3	204.2	85.8	923	90	1933	76	10	240	2200	4851
-3108B	2400	1810	5779	94.5	71.3	227.6	102.9	1107	108	1933	76	12	290	2500	5513
-3054T	1200	2160	5579	47.3	85.1	219.7	51.5	554	54	1933	76	6	150	1900	4190
-3072T	1600	2160	5579	63.0	85.1	219.7	68.6	738	72	1933	76	8	200	2200	4851
-3090T	2000	2160	5579	78.8	85.1	219.7	85.8	923	90	1933	76	10	240	2500	5513
-3108T	2400	2160	5869	94.5	85.1	231.1	102.9	1107	108	1933	76	12	290	2800	6174
-5054B	1200	1810	5755	47.3	71.3	226.6	67.6	727	54	2540	100	6	150	1900	4190
-5072B	1600	1810	5755	63.0	71.3	226.6	90.1	969	72	2540	100	8	200	2200	4851
-5090B	2000	1810	5755	78.8	71.3	226.6	112.7	1212	90	2540	100	10	240	2500	5513
-5108B	2400	1810	6345	94.5	71.3	249.9	135.2	1454	108	2540	100	12	290	2700	5954
-5054T	1200	2160	6149	47.3	85.1	242.1	67.6	727	54	2540	100	6	150	2000	4410
-5072T	1600	2160	6149	63.0	85.1	242.1	90.1	969	72	2540	100	8	200	2300	5072
-5090T	2000	2160	6149	78.8	85.1	242.1	112.7	1212	90	2540	100	10	240	2600	5733
-5108T	2400	2160	6439	94.5	85.1	253.6	135.2	1454	108	2540	100	12	290	3100	6836
-3126B	2800	1810	5404	110.3	71.3	212.8	120.1	1292	126	1933	76	14	340	2800	6174
-3144B	3200	1810	5404	126.0	71.3	212.8	137.2	1476	144	1933	76	16	390	3200	7056

-3126T	2800	2160	5704	110.3	85.1	224.6	120.1	1292	126	1933	76	14	340	3200	7056
-3144T	3200	2160	5704	126.0	85.1	224.6	137.2	1476	144	1933	76	16	390	3400	7497
-5126B	2800	1810	5974	110.3	71.3	235.2	157.8	1697	126	2540	100	14	340	3200	7056
-5144B	3200	1810	5974	126.0	71.3	235.2	180.3	1940	144	2540	100	16	390	3500	7718
-5126T	2800	2160	6274	110.3	85.1	247.1	157.8	1697	126	2540	100	14	340	3500	7718
-5144T	3200	2160	6274	126.0	85.1	247.1	180.3	1940	144	2540	100	16	390	3900	8510
-5162T	3600	2160	6274	141.8	85.1	247.1	202.8	2182	162	2540	100	18	440	4200	9261
-5180T	4000	2160	6274	157.5	85.1	247.1	225.4	2425	180	2540	100	20	480	4700	10364
-5198T	4400	2160	6274	173.3	85.1	247.1	247.9	2667	198	2540	100	22	530	5000	11025

B: Bottom inlet T: Top inlet

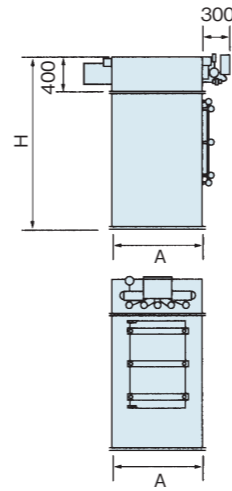
WRT Series 3000/5000 Series (with an onboard fan)

Model	Dimensions						Airflow		Static pressure [kPa]	Output		Filter area		No. of Filters	Filter length		No. of valves	Air supplied quantity [L/min]	Weight											
	mm			inch			m³/min	cfm		kW	HP	m²	ft²		mm	inch			kg	lb										
	W	D	H	W	D	H																								
WRT-3054BF	2565	1810	5185	101.0	71.3	204.2	50	1765	3.43	5.5	7.3	51.5	554	54	1933	76	6	150	2300	5072										
							70	2472		7.5	10																			
							90	3178		11	15																			
							100	3531		11	15																			
							120	4237		15	20																			
							140	4944		15	20																			
-3072BF	2965	1810	5185	116.8	71.3	204.2	70	2472	3.43	7.5	10	68.6	738	72	1933	76	8	200	2600	5733										
							90	3178		11	15																			
							110	3884		11	15																			
							140	4944		15	20																			
							180	6356		18.5	25																			
							200	7062		18.5	25																			
-3090BF	3365	1810	5185	132.5	71.3	204.2	90	3178	3.43	11	15	85.8	923	90	1933	76	10	240	2800	6174										
							110	3884		11	15																			
							140	4944		15	20																			
							180	6356		18.5	25																			
							200	7062		18.5	25																			
							-3054TF	2565		2160	5435										101.0	85.1	214	50	1765	3.43	5.5	7.3	51.5	554
70	2472	7.5	10																											
90	3178	11	15																											
100	3531	11	15																											
120	4237	15	20																											
140	4944	15	20																											
-3072TF	2965	2160	5435	116.8	85.1	214	70	2472	3.43	7.5	10	68.6	738	72	1933	76	8	200	2800	6174										
							90	3178		11	15																			
							110	3884		11	15																			
							140	4944		15	20																			
							180	6356		18.5	25																			
							200	7062		18.5	25																			
-3090TF	3365	2160	5435	132.5	85.1	214.0	90	3178	3.43	11	15	85.8	923	90	1933	76	10	240	3100	6836										
							110	3884		11	15																			
							140	4944		15	20																			
							180	6356		18.5	25																			
							200	7062		18.5	25																			
							-5054BF	2565		1810	5755										101.0	71.3	226.6	70	2472	3.43	7.5	10	67.6	727
90	3178	11	15																											
110	3884	11	15																											
140	4944	15	20																											
180	6356	18.5	25																											
200	7062	18.5	25																											
-5072BF	2965	1810	5755	116.8	71.3	226.6	120	4237	3.43	15	20	90.1	969	72	2540	100	8	200	2800	6174										
							140	4944		15	20																			
							180	6356		18.5	25																			
							200	7062		18.5	25																			
							-5090BF	3365		1810	5755										132.5	71.3	226.6	140	4944	3.43	15	20	112.7	121



WRT Series 7000 Series (with a separate fan)

Model	Dimensions						Filter area		No. of filters		Filter length				No. of valves	Air supplied quantity [L/min]	Weight	
	mm			inch			m²	ft²	Long	Short	mm		inch				kg	lb
	W	D	H	W	D	H	Long	Short			Long	Short						
WRT-7080	2000	2160	7249	78.8	85.1	285.4	132.7	1427	72	8	3500	2133	138	84	10	330	3200	7056
-7096	2400	2160	7539	94.5	85.1	296.9	160.3	1724	88	8	3500	2133	138	84	12	400	3700	8159
-7112	2800	2160	7789	110.3	85.1	306.7	182.5	1963	96	16	3500	2133	138	84	14	460	4200	9261
-7128	3200	2160	8049	126.0	85.1	316.9	210.1	2260	112	16	3500	2133	138	84	16	530	4800	10584
-7144	3600	2160	7374	141.8	85.1	290.4	237.8	2558	128	16	3500	2133	138	84	18	590	5100	11246
-7160	4000	2160	7374	157.5	85.1	290.4	265.4	2855	144	16	3500	2133	138	84	20	660	5600	12348
-7176	4400	2160	7374	173.3	85.1	290.4	287.6	3094	152	24	3500	2133	138	84	22	720	6000	13230
-7192	4800	2160	7374	189.0	85.1	290.4	315.2	3391	168	24	3500	2133	138	84	24	790	6500	14333
-7208	5200	2160	7374	204.8	85.1	290.4	342.8	3688	184	24	3500	2133	138	84	26	860	6900	15215
-7224	5600	2160	7374	220.5	85.1	290.4	365.1	3928	192	32	3500	2133	138	84	28	920	7300	16097
-7240	6000	2160	7374	236.3	85.1	290.4	392.7	4225	208	32	3500	2133	138	84	30	990	8200	18081



BV

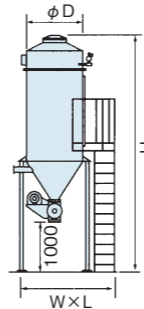
● Filter: Woven filter ● Dust removal: Automatic removal by pulse jet

Model	Dimensions				Area			Quantity	Length		No. of valves	Air supplied quantity [L/min]	Weight	
	mm		inch		m²	ft²	mm		inch	kg			lb	
	A	H	A	H										
BV-1009	600	1370	23.7	54.0	4.1	44	9	914	36	3	70	215	475	
-1016	800	1370	31.5	54.0	7.2	77	16	914	36	4	90	275	607	
-1025	1000	1370	39.4	54.0	11.3	121	25	914	36	5	110	370	816	
-1036	1200	1370	47.3	54.0	16.2	174	36	914	36	6	130	590	1301	
-1049	1400	1370	55.2	54.0	22.1	237	49	914	36	7	160	685	1511	
-2009	600	1930	23.7	76.0	6.5	69	9	1472	58	3	75	230	508	
-2016	800	1930	31.5	76.0	11.6	124	16	1472	58	4	95	330	728	
-2025	1000	1930	39.4	76.0	18.2	195	25	1472	58	5	110	470	1037	
-2036	1200	1930	47.3	76.0	26.1	280	36	1472	58	6	140	750	1654	
-2049	1400	1930	55.2	76.0	35.6	383	49	1472	58	7	170	900	1985	

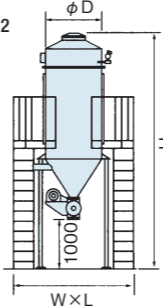
WRT Series 10000 Series (with a separate fan)

Model	Dimensions						Filter area		No. of filters		Filter length				No. of valves	Air supplied quantity [L/min]	Weight	
	mm			inch			m²	ft²	Long	Short	mm		inch				kg	lb
	W	D	H	W	D	H	Long	Short			Long	Short						
WRT-10112	2800	2160	9085	110.3	85.1	357.7	284.4	3060	104	8	5350	2540	210	100	14	460	6900	15215
-10128	3200	2160	9085	126.0	85.1	357.7	326.7	3515	120	8	5350	2540	210	100	16	530	6500	14333
-10160	4000	2160	9085	157.5	85.1	357.7	411.1	4423	152	8	5350	2540	210	100	20	660	7400	16317
-10192	4800	2160	9085	189.0	85.1	357.7	484.5	5213	176	16	5350	2540	210	100	24	780	8800	19404
-10224	5600	2160	9085	220.5	85.1	357.7	568.9	6121	208	16	5350	2540	210	100	28	920	10000	22050
-10256	6400	2160	9385	252.0	85.1	369.5	653.4	7030	240	16	5350	2540	210	100	32	1050	11600	25578
-10288	7200	2160	9385	283.5	85.1	369.5	726.7	7819	264	24	5350	2540	210	100	36	1170	12700	28004
-10320	8000	2160	9385	315.0	85.1	369.5	811.2	8728	296	24	5350	2540	210	100	40	1300	13900	30650

Shape 1

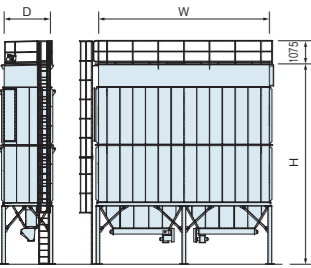


Shape 2



WRT Series 10000 Series (with a separate fan)

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



CT

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

Model	Shape	Dimensions								Filter area		No. of filters	Filter length		No. of valves	Air supplied quantity [L/min]	Weight	
		mm				inch				m²	ft²		mm	inch			kg	lb
		D	H	W	L	D	H	W	L									
CT-1008	1	765	3390	1065	1515	30.2	133.5	42.0	59.7	3.6	38	8	914	36	3	70	255	563
-2008	1	765	3990	1065	1515	30.2	157.1	42.0	59.7	5.8	62	8	1472	58	3	75	315	695
-2014	1	950	4220	1250	1700	37.5	166.2	49.3	67.0	10.2	109	14	1472	58	4	90	385	849
-2018	1	1100	4400	1400	1850	43.4	173.3	55.2	72.9	13.1	140	18	1472	58	4	100	470	1037
-2024	1	1250	4580	1550	2000	49.3	180.4	61.1	78.8	17.4	187	24	1472	58	5	110	570	1257
-4008	1	765	4690	1065	1515	30.2	184.7	42.0	59.7	8.4	90	8	2133	84	3	85	370	816
-4014	1	950	4920	1250	1700	37.5	193.8	49.3	67.0	14.7	158	14	2133	84	4	95	460	1015
-4018	1	1100	5100	1400	1850	43.4	200.8	55.2	72.9	18.9	203	18	2133	84	4	110	565	1246
-4024	1	1250	5280	1550	2000	49.3	207.9	61.1	78.8	25.2	271	24	2133	84	5	115	680	1500

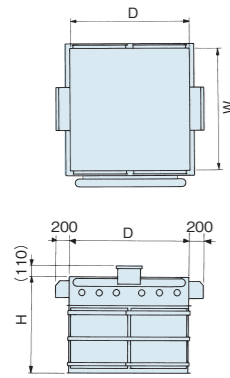
Model	Shape	Dimensions								Filter area		No. of filters	Filter length		No. of valves	Air supplied quantity [L/min]	Weight	
		mm				inch				m²	ft²		mm	inch			kg	lb
		D	H	W	L	D	H	W	L									
CT-2030	2	1400	4760	1700	2600	55.2	187.5	67.0	102.4	21.8	234	30	1472	58	6	125	720	1588
-2038	2	1525	4930	1825	2725	60.1	194.1	71.9	107.3	27.6	296	38	1472	58	6	130	820	1809
-2046	2	1700	5100	2000	2900	67.0	200.8	78.8	114.2	33.4	359	46	1472	58	6	150	930	2051
-2054	2	1900	5330	2200	3100	74.9	209.9	86.7	122.1	39.2	421	54	1472	58	7	175	1090	2404
-2064	2	2000	5460	2300	3200	78.8	215.0	90.6	126.0	46.5	500	64	1472	58	9	180	1535	3385
-2074	2	2150	5590	2450	3350	84.7	220.1	96.5	131.9	53.7	577	74	1472	58	10	205	1705	3760
-2086	2	2300	5750	2600	3500	90.6	226.4	102.4	137.8	62.4	671	86	1472	58	12	230	1945	4289
-4030	2	1400	5460	1700	2600	55.2	215.0	67.0	102.4	31.6	340	30	2133	84	6	130	805	1776
-4038	2	1525	5630	1825	2750	60.1	221.7	71.9	108.3	40.0	430	38	2133	84	6	140	985	2172
-4046	2	1700	5800	2000	2900	67.0	228.4	78.8	114.2	48.4	520	46	2133	84	6	160	1110	2448
-4054	2	1900	6030	2200	3100	74.9	237.5	86.7	122.1	56.8	611	54	2133	84	7	180	1270	2801
-4064	2	2000	6160	2300	3200	78.8	242.6	90.6	126.0	67.4	725	64	2133	84	9	190	1790	3947
-4074	2	2150	6290	2450	3350	84.7	247.7	96.5	131.9	77.8	837	74	2133	84	10	225	1980	4366
-4086	2	2300	6450	2600	3500	90.6	254.0	102.4	137.8	90.5	973	86	2133	84	12	250	2250	4962

*Mass is only for the tank section.

WRT-ST

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

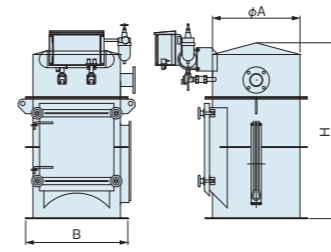
Model	Dimensions						Filter area		No. of filters	Filter length		No. of valves	Air supplied quantity [L/min]	Weight	
	mm			inch			m²	ft²		mm	inch			kg	lb
	W	D	H	W	D	H									
WRT-3042ST	1200	2160	5679	47.3	85.1	223.6	155.4	1672	42	1455	57	6	210	1900	4190
-3056ST	1600	2160	5679	63.0	85.1	223.6	207.2	2229	56	1455	57	8	280	2200	4851
-3070ST	2000	2160	5679	78.8	85.1	223.6	259.0	2786	70	1455	57	10	330	2500	5513
-3084ST	2400	2160	5969	94.5	85.1	235	310.8	3344	84	1455	57	12	390	2900	6395
-5042ST	1200	2160	6449	47.3	85.1	253.9	222.6	2395	42						



PPC

● Filter: Molded filter (with jet amp) ● Dust removal: Automatic removal by pulse jet

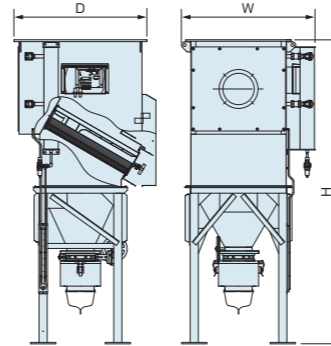
Model	Dimensions						Filter			No. of valves	Air supplied quantity [L/min]	Weight			
	mm			inch			Area		Quantity			Length		kg	lb
	W	D	H	W	D	H	m ²	ft ²				mm	inch		
PPC-1022			855			33.7	2.8	30	4	250	9.9	140	309		
-2022		605	1105	23.9	43.6	5.6	60	500		19.7	160	353			
-3022			1355		53.4	8.4	90	750		29.6	180	397			
-1032			855		33.7	4.2	45	6	250	9.9	170	375			
-2032	605	855	1105	23.9	43.6	8.4	90		500	19.7	200	441			
-3032			1355		53.4	12.6	135		750	29.6	230	508			
-1042			855		33.7	5.6	60	8	250	9.9	220	486			
-2042		1205	1105	47.5	43.6	11.2	120		500	19.7	260	574			
-3042			1355		53.4	16.8	180		750	29.6	300	662			
-1033			855		33.7	6.3	67	9	250	9.9	210	464			
-2033		855	1105	33.7	43.6	12.6	135		500	19.7	240	530			
-3033			1355		53.4	18.9	203		750	29.6	270	596			
-1043			855		33.7	8.4	90	12	250	9.9	260	574			
-2043		1205	1105	47.5	43.6	16.8	180		500	19.7	300	662			
-3043			1355		53.4	25.2	271		750	29.6	350	772			
-1053			855		33.7	10.5	112	15	250	9.9	320	706			
-2053		1455	1105	57.3	43.6	21.0	225		500	19.7	370	816			
-3053			1355		53.4	31.5	338		750	29.6	420	927			
-1063			855		33.7	12.6	135	18	250	9.9	360	794			
-2063		1705	1105	67.2	43.6	25.2	271		500	19.7	420	927			
-3063			1355		53.4	37.8	406		750	29.6	480	1059			
-1044			855		33.7	11.2	120	16	250	9.9	350	772			
-2044		1205	1105	47.5	43.6	22.4	241		500	19.7	410	905			
-3044			1355		53.4	33.6	361		750	29.6	470	1037			
-1054			855		33.7	14.0	150	20	250	9.9	420	927			
-2054		1205	1455	47.5	43.6	28.0	301		500	19.7	490	1081			
-3054			1355		53.4	42.0	451		750	29.6	560	1235			
-1064			855		33.7	16.8	180	24	250	9.9	480	1059			
-2064		1705	1105	67.2	43.6	33.6	361		500	19.7	560	1235			
-3064			1355		53.4	50.4	542		750	29.6	640	1412			
-1045			855		33.7	14.0	150	20	250	9.9	420	927			
-2045		1205	1105	47.5	43.6	28.0	301		500	19.7	490	1081			
-3045			1355		53.4	42.0	451		750	29.6	560	1235			
-1055			855		33.7	17.5	188	25	250	9.9	490	1081			
-2055		1455	1455	57.3	43.6	35.0	376		500	19.7	570	1257			
-3055			1355		53.4	52.5	564		750	29.6	650	1434			
-1065			855		33.7	21.0	225	30	250	9.9	550	1213			
-2065		1705	1105	67.2	43.6	42.0	451		500	19.7	630	1390			
-3065			1355		53.4	63.0	677		750	29.6	720	1588			
-1046			855		33.7	16.8	180	24	250	9.9	460	1014			
-2046		1205	1105	47.5	43.6	33.6	361		500	19.7	530	1169			
-3046			1355		53.4	50.4	542		750	29.6	600	1323			
-1056			855		33.7	21.0	225	30	250	9.9	530	1169			
-2056		1705	1455	67.2	43.6	42.0	451		500	19.7	610	1346			
-3056			1355		53.4	63.0	677		750	29.6	690	1522			
-1066			855		33.7	25.2	271	36	250	9.9	600	1323			
-2066		1705	1105	67.2	43.6	50.4	542		500	19.7	690	1522			
-3066			1355		53.4	75.6	813		750	29.6	780	1720			



MF

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

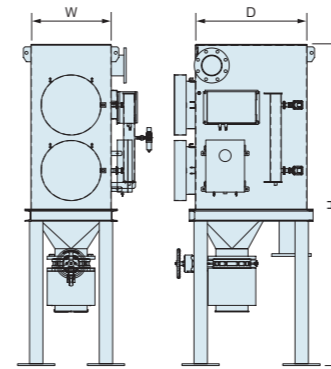
Model	Dimensions						Filter			No. of valves	Air supplied quantity [L/min]	Weight			
	mm			inch			Area		Quantity			Length		kg	lb
	A	B	H	A	B	H	m ²	ft ²				mm	inch		
MF-2003	φ500	φ600	800	19.7	23.7	31.5	4.5	48	3	500	19.7	2	30	-	-
-2004	φ600	φ700	1205	23.7	27.6	47.5	6.0	64	4			40	-	-	
-2007	φ765	φ865	1250	30.2	34.1	49.3	10.5	112	7			50	-	-	
-2012	φ1100	φ1200	1350	43.4	47.3	53.2	18.0	193	12			100	-	-	



TFP

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

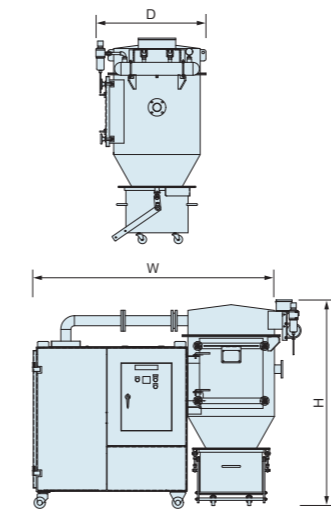
Model	Dimensions						Filter			No. of valves	Air supplied quantity [L/min]	Weight			
	mm			inch			Area		Quantity			Length		kg	lb
	A	B	H	A	B	H	m ²	ft ²				mm	inch		
TFP-0201	747		2472	29.5		97.4	13.5	145	2	750	29.6	2	20	210	464
-0202	1067		2572	42.1		101.3	27.0	290	4			30	270	596	
-0302	1067	1130	2952	42.1	44.5	116.3	40.5	435	6	750	29.6	3	45	320	706
-0303	1387		3222	54.7		126.9	60.8	654	9			50	450	993	
-0402	1067		3332	42.1		131.2	54.0	581	8			60	370	816	
-0403	1387		3602	54.7		141.9	81.0	871	12	70	500	1103			



TFP-S

● Filter: Molded filter ● Dust removal: Automatic removal by 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
	A	B	H	A	B	H	m ²	ft ²				mm	inch		
TFP-S0201	600		2200	23.7		86.7	11.0	118	2	500	19.7	2	20	400	882
-S0301		750	2700		29.6	106.3	16.5	177	3			3	500	1103	
-S0202			2200		39.4	86.7	22.0	236	4	500	19.7	2	30	750	1654
-S0302	1000		2700			106.3	33.0	355	6			3	900	1985	



ACR-PK

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

Model	Dimensions						Airflow	Static pressure [kPa]	Output	Filter				No. of valves	Air supplied quantity [L/min]	Weight			
	mm			inch						Area		Quantity	Length			kg	lb		
	A	B	H	A	B	H				m ²	ft ²		mm					inch	
ACR-10PK	2132	1080	1842	84.0	42.6	72.6	6.5	229	7.5	10	5.6	60	4	500	19.7	2	45	1200	2646
-15PK							9.0	317	11.0	15								1500	3308

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 feeder. 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

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.



High pressure conveyance

- 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

LAF

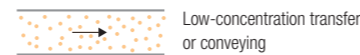
Ideal for short distance conveyance or conveying from 1 to multiple locations.

By using the dynamic pressure of the conveyance air, the particles are flow 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 pressure conveyance

- Low cost
- Multiple conveying



■ Specifications

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

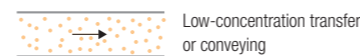
VAF

Ideal for conveying/feeding from several locations 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 transfer



■ Specifications

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

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.



Dust particle handling plant



EV/FV

Installable at a reasonable cost. Compact pneumatic conveying feeder.



Suction type general-purpose dust transfer feeder

■ Specifications

Model	EV-5L	EV-10L
Intake (suction) air source	Ejector pump	
Dimensions	φ405×1160	
Filter Quantity	1	
Filter area	0.7	
Dust removal	Automatic pulse jet type (At fixed interval)	
Compressed air consumption [m ³ /min]	Equivalent to 0.5 screw compressor at 3.7kW	Equivalent to 1.0 screw compressor at 7.5kW
Compressed air coupling port	15A	
Exhaust valve specifications	Weight damper method	
Control system	Air regulation (electrical control also okay-OPT)	
Intake (suction) hose diameter	φ25	φ38
Intake (suction) hose diameter	1	1.5
Main material	SUS or SS	
Weight	90	199

■ Specifications

Model	FV-3
Intake (suction) air source	Brushless blower motor
Power supply	3-phase 50/60Hz common use
Output	kW 2.0
Output	HP 2.6
Dimensions	mm φ405×1295
Dimensions	inch 16×51
Filter Quantity	1
Filter area	m ² 0.7
Filter area	ft ² 7.5
Dust removal	Automatic pulse jet type (At fixed interval)
Compressed air consumption	20 liters per minute 0.5MPa to 0.7MPa (for pulse jet)
Compressed air coupling port	6A
Compressed air coupling port	inch 0.3A
Exhaust valve specifications	Weight damper method
Control system	Electrical control
Intake (suction) hose diameter	mm φ38
Intake (suction) hose diameter	inch φ1.5
Main material	SUS or SS
Weight	kg 80
Weight	lb 177

FPV

Small size pneumatic conveying feeder.



No tools required for dismantling



Suction type general-purpose dust transfer feeder

■ 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)	
Filter box	inch 14(350A)		18(450A)		22(550A)	
Design withstand pressure [kPa]	-50(intake)					
Method	Automatic pulse jet type (At fixed interval)					
Dust removal of filter	Diaphragm valve [pcs.] 1		2		3	
Dust removal of filter	Pulse jet compressed air pressure [MPa] Normally 0.4 to 0.5					
Filter	Name Standard filter		Resin filter		Standard filter	
Filter	Material Polyester		Polyethylene		Polyester	
Filter	Quantity 1		9		3	
Filter	Area m ² 1.17		2.34		2.13	
Filter	ft ² 12.5		25.1		22.9	
Filter	Cleaning (water-washing) No		Okay		No	
Filter	Suction port diameter (nominal) m 38.1 (Sanitary 1.5S ferrule)		50.8 (Sanitary 2.0S ferrule)		63.5 (Sanitary 2.5S ferrule)	
Filter	inch 1.5 (Sanitary 1.5S ferrule)		2 (Sanitary 2.0S ferrule)		2.5 (Sanitary 2.5S ferrule)	
Filter	Slope angle standard (degrees) 60					
Filter	Exhaust port diameter 4.5S (100A)		6.5S (150A)		8.5S (200A)	
Filter	Electrical components Standard (pilot valve box) Pulse jet board & pilot valve 200V/100V selectable specifications					
Filter	Unit material Material SUS304					
Filter	Surface treatment Inner/outer surface buffing (※Inner/outer surface #400)					
Filter	Weight kg Approximately 55		Approximately 55		Approximately 70	
Filter	lb Approximately 122		Approximately 122		Approximately 155	
Filter			Approximately 166		Approximately 188	
Filter					Approximately 210	

AGR

Water-washable & modular design.

No tools required for dismantling



Suction type general-purpose dust transfer feeder

- Space-saver
- Small airflow
- Minimal crushing
- No power source required


■ Specifications


Model	AGR-130	AGR-150	AGR-200M	AGR-200
Shell diameter	mm 130	150	200	200
Shell diameter	inch 5.2	5.9	7.9	7.9
Overall height	mm 859	972	1050	1166
Overall height	inch 33.9	38.3	41.4	46.0
1batch quantity	L 3	4.2	8	12
1batch quantity	U.S.gallon 0.8	1.1	2.1	3.1
Conveying capability [L/h]	30~100	100~300	300~700	500~1200
Filter Quantity	1			
Compressed air consumption at 0.6MPa [L/min]	100-500			
Material of main unit	SUS304/SUS316L			
Filter material	PTFE/SUS316L			
Weight [kg]	kg 32	-	-	55
Weight [kg]	lb 71	-	-	55


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.


Amano official online shop <http://shop.amano.co.jp/shop/default.aspx>


Name	Canvas filter				
Material	Cotton				
Corresponding models	-				
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				
Corresponding models	Fluororesin porous thin film laminate processing				
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	Anti-electrostatic filter				
Material	Polyester				
Corresponding models	Metal wire net weaving				
Corresponding models	VNA-SDN/DN				
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	Resin filter				
Material	High molecular weight polyethylene				
Corresponding models	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				
Corresponding models	-				
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	Standard filter (Polyester Spunbond)				
Material	Polyester				
Corresponding models	-				
Corresponding models	PIE · FCN · Mi · PIH				
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				
Corresponding models	Fluororesin porous thin film laminate processing				
Corresponding models	PIE · FCN · Mi · PIH				
Application	Dried fine particles (particle diameter 10μm or less)				
Features	General dried particles (particle diameter about 10μm)				
	Collecting efficiency	Heat resistant temperature (F)	Dust removal	Noncombustibility	
	◎	normal temperature 40°C (104°)	Pulse jet	×	

Name	Anti-electrostatic filter				
Material	Polyester				
Corresponding models	Stainless evaporation				
Corresponding models	PIE-SDN/DN · PIE-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				
Corresponding models	-				
Corresponding models	PIE · Mi				
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	Nanofiber filter				
Material	PET blend cellulose				
Corresponding models	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)				
	Collecting efficiency	Heat resistant temperature (F)	Dust removal	Noncombustibility	
	◎	normal temperature 40°C (104°)	Vibration	○	


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					
Corresponding models	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					
Corresponding models	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					
Corresponding models	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					
Corresponding models	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					
Corresponding models	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)					
Corresponding models	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°)	◎	◎	○	

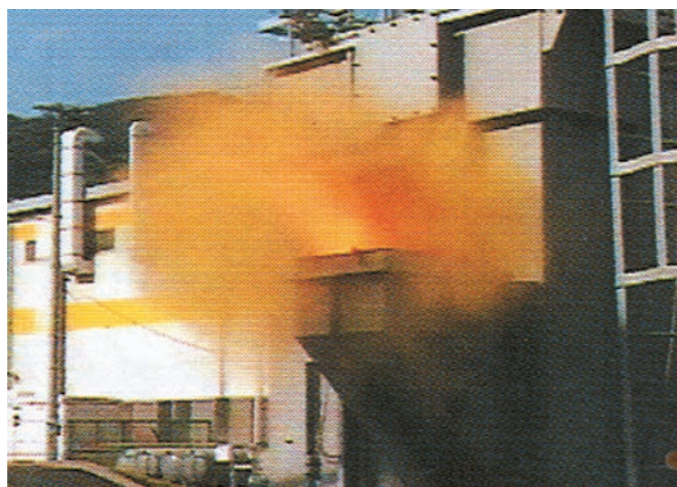
Name	P84					
Material	Polyimide					
Corresponding models	Singed					
Corresponding models	WRT · BV · CT · HGD					
Application	High-temperature dust collection (particle size about 10μm)					
Features	This filter is for high-temperature dust collection.					
	Collecting efficiency	Heat resistant temperature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

Name	Tefaire					
Material	Fluororesin fiber + glass fiber					
Corresponding models	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					
Corresponding models	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



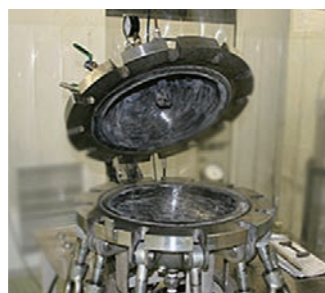
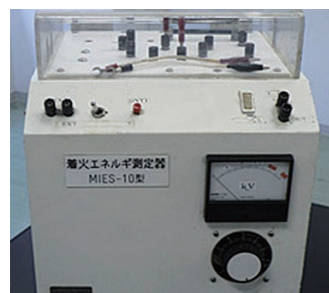
In client consultations for dust explosion pressure diffusion type dust collectors we always make a test analysis of the following items...

- 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 chargedEnvironmental Technology Co., Ltd. does the testing.

- Dust explosion test overview (video)

<http://www.eiseiken.co.jp/example/index.html>



Guide to selecting hood types & required air blow quantity

■ Capture velocity determined by dust ordinances

Hood models	Capture velocity (meters per second)	
Enclosure type hoodt	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 (meters per second)
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 method	<p>Opening surface area : $A(m^2)=L(m) \times W(m)$</p> <p>$A = \frac{\pi}{4} \cdot d^2$</p>	$Q = 60 \cdot A \cdot V_o$ $= 60 \cdot A \cdot V_c \cdot k$ 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	<p>$A = \frac{\pi}{4} \cdot d^2$ Distance : $X(m)$</p> <p>$A = L \cdot W$ Aspect ratio : $W/L > 0.2$</p>	$Q = 60 \cdot V_c \cdot (10 X^2 + A) \cdot k$ k : Correction coefficient for disturbance flow
③ Externally attached type ※Circular or rectangular hood with flange mounted in free space	<p>$A = \frac{\pi}{4} \cdot d^2$</p> <p>$A = L \cdot W$ $W/L > 0.2$</p>	$Q = 60 \cdot 0.75 \cdot V_c \cdot (10 X^2 + A) \cdot k$ k : Correction coefficient for disturbance flow
④ Externally attached type ※Circular or rectangular canopy type hood	<p>Canopy perimeter : $P = 2(L + W)$ Height coefficient : $H/L \leq 0.3$</p>	$Q = 60 \cdot 1.4 \cdot P \cdot H \cdot V_c \cdot k$ k : Correction coefficient for disturbance flow

■ Correction coefficient

Opening area		Correction coefficient k	
m²	ft²	Enclosure method	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

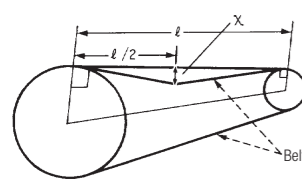
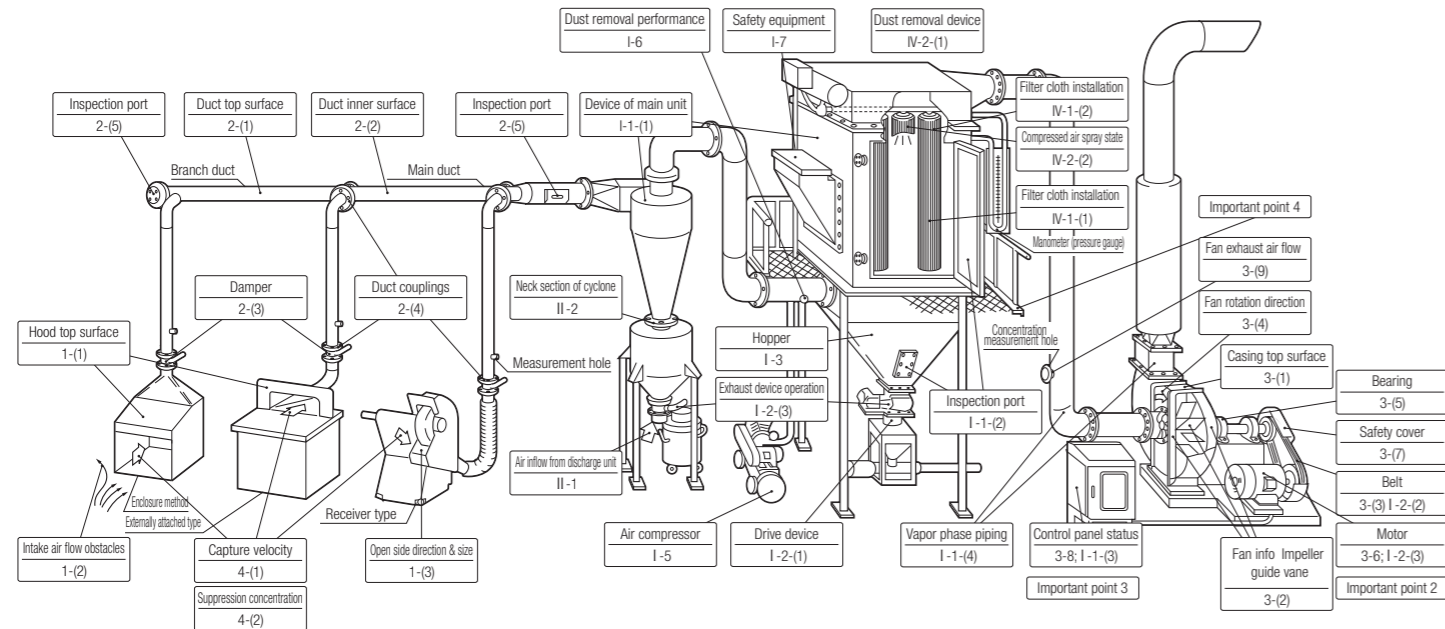
※Correction coefficient k is a given value depending on the situation.

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 Shall not exceed value in fields below when coolant temperature is below 30°C.
 ② Shall not exceed value in middle box when coolant temperature is 30°C or more.



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

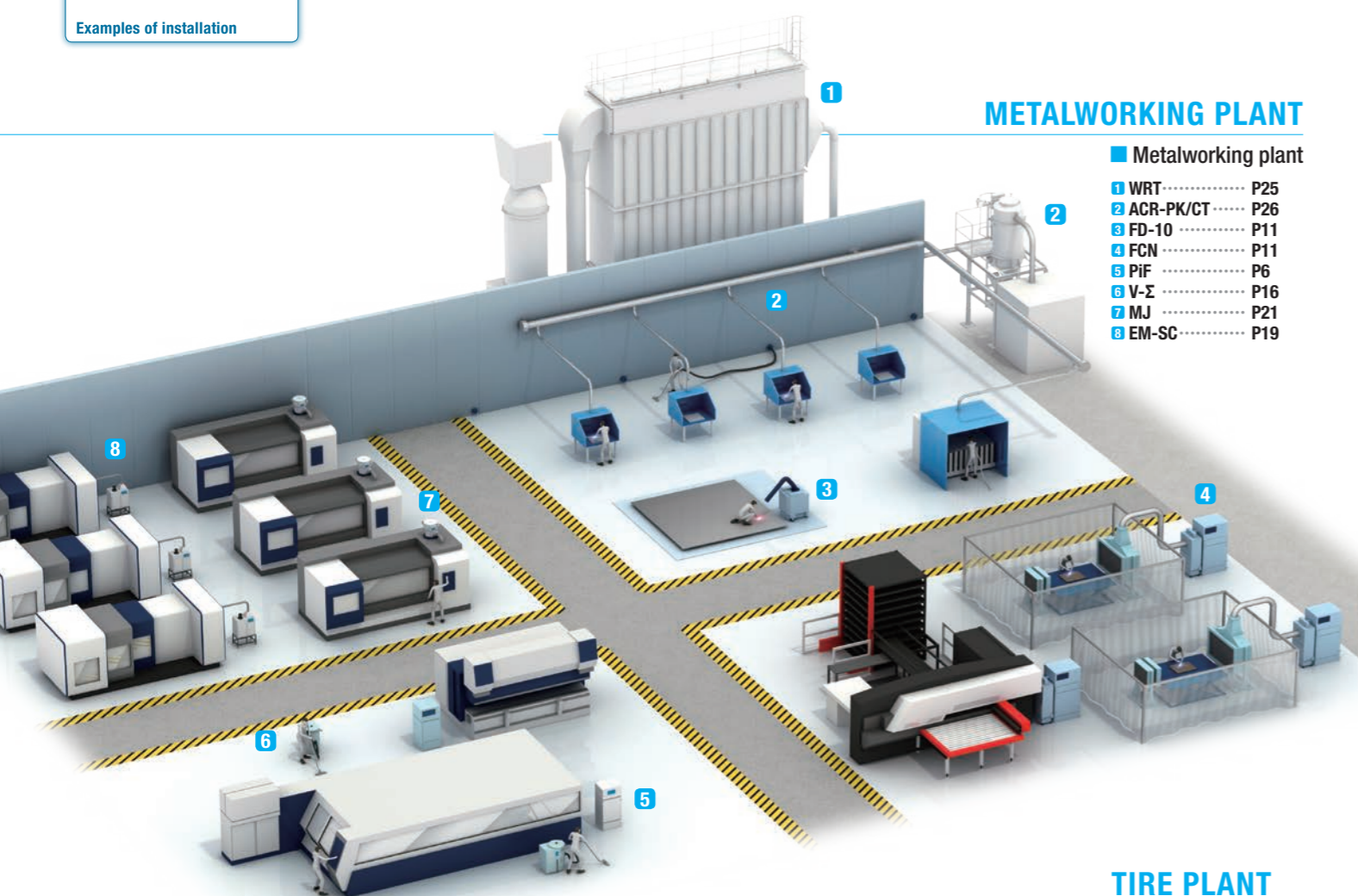
Item		Inspection item	Inspection method and tools	Judgement criteria
Hood and intake-exhaust performance	1- (1)	Check for any wear, corrosion or deformation	Visual and touch	Shall have no abnormalities that lower intake air capacity.
	1- (2)	Intake status (any impediments)	Visual and smoke tester	Shall completely suction in the air stream.
	1- (3)	Receiver type opening side direction & size	Visually check	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)	Suppression 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 check	Shall be no air leaks, and no increased resistance
	2- (2)	Check for any breakage and dust accumulation on inner surfaces	Use stethoscope 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 and 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, loosens 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	Inspection footrest · passage way safety	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	Visually check	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 check	Shall be specified rotation direction
Fan bearing	3- (5)	Abnormal bearing sounds, temperature, oil and grease oil quantity and state of impurities	Audible sounds, touch, surface temperature, visual	Shall be no abnormal sounds, difference versus ambient temperature 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 check · 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 meet judgment criteria for intake/exhaust performance.
Safety	Important Items Page 2,3	Safety measures for machine and electrical inspections	Safety and health provisions	Shall have hazard prevention measures installed.

3. Fan and electric motor

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 and 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 check	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 and 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	Visually check	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 and 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 shall be within design value range.
	Filter material installation	IV-1- (2)	Check installation status and breakage in clamping parts of omissions/uneven clamping	Visual and 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 and 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	Inspection scaffold · passage way safety	Visual and touch	Shall be no corrosion, breakage or looseness.	



METALWORKING PLANT

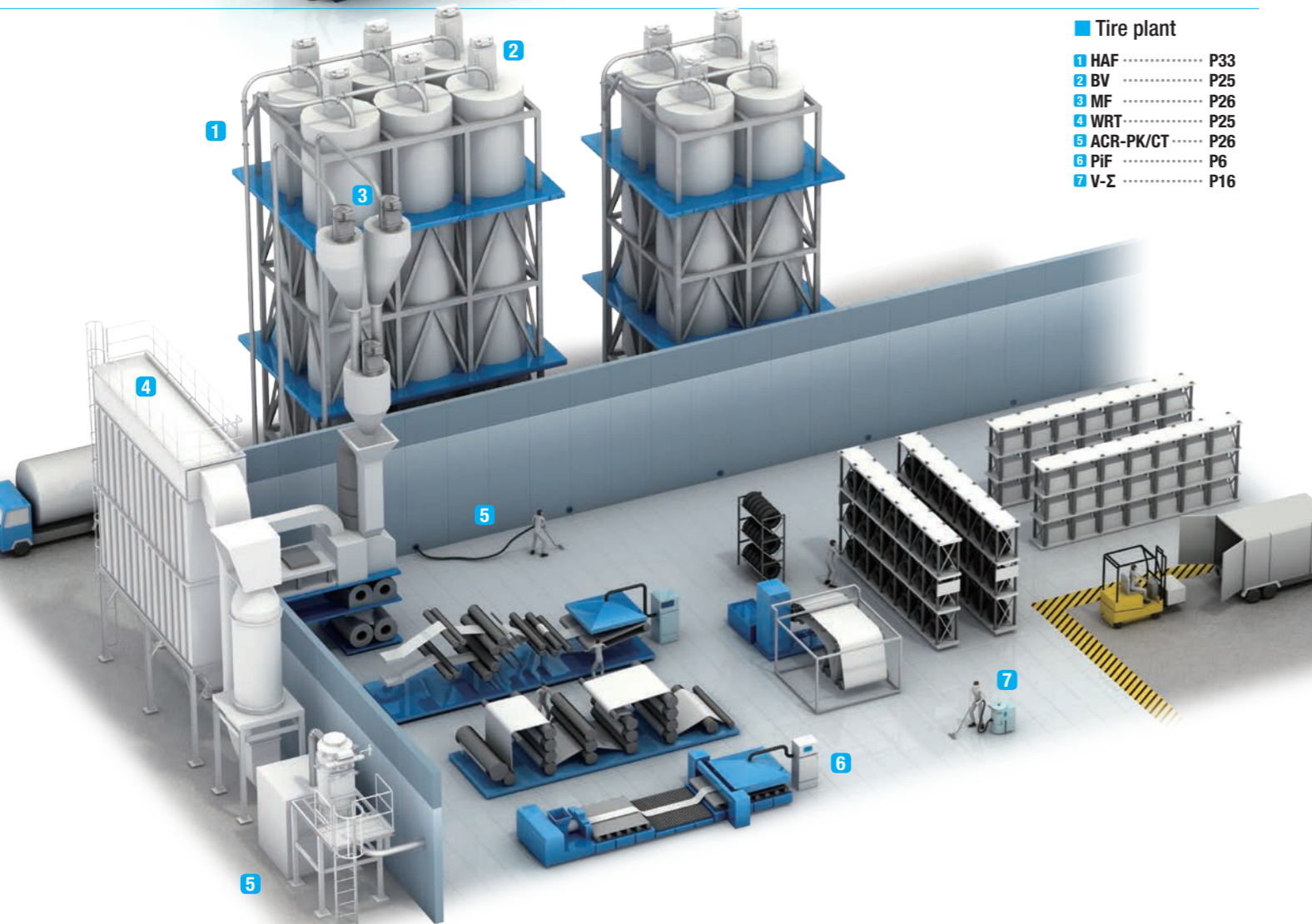
■ Metalworking plant

- 1 WRT P25
- 2 ACR-PK/CT P26
- 3 FD-10 P11
- 4 FCN P11
- 5 PIF P6
- 6 V-Σ P16
- 7 MJ P21
- 8 EM-SC P19



Amano environmental products

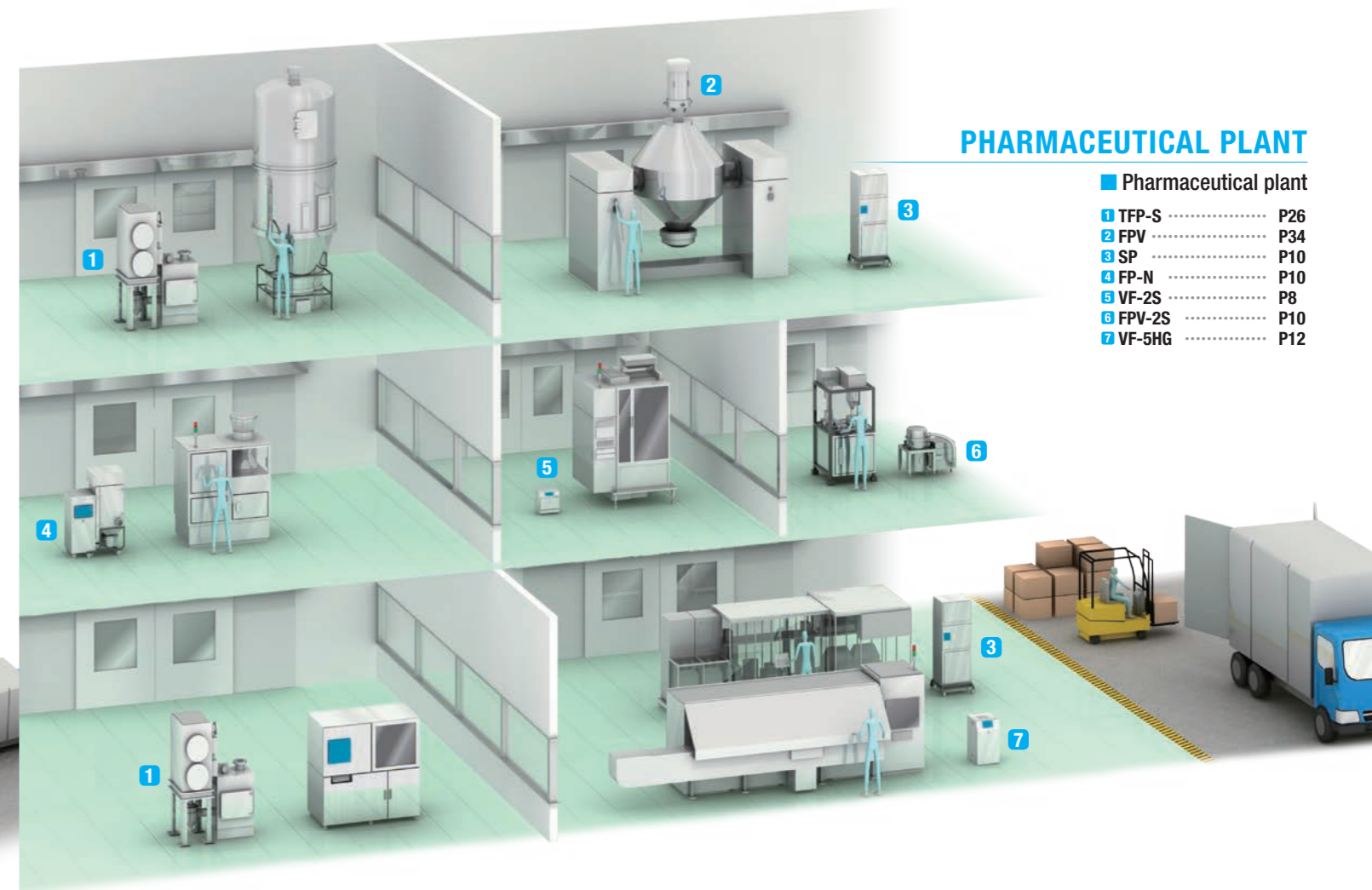
Our dust collectors vacuum cleaners, mist collectors, pneumatic conveying systems are used in all sections of production plants. We design and provide ideal systems that meet customer needs and applications.



TIRE PLANT

■ Tire plant

- 1 HAF P33
- 2 BV P25
- 3 MF P26
- 4 WRT P25
- 5 ACR-PK/CT P26
- 6 PIF P6
- 7 V-Σ P16



PHARMACEUTICAL PLANT

■ Pharmaceutical plant

- 1 TFP-S P26
- 2 FPV P34
- 3 SP P10
- 4 FP-N P10
- 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
http://www.amano.co.jp/corp/associated_kaigai.html



To Ensure Safe Operation

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

- Be sure to read the instruction manual thoroughly before getting started, and use the machine correctly.
- 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.
- If there is a danger of suctioning sparks when collecting flammable dust from polishing work and so forth, consult with dealer of Amano environmental products 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 inflammable, explosive or corrosive.
- Please comply with any legal regulations that are established for installation.
- 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.
- Comply with instructions on servicing as described in the instruction manual, and perform daily and periodic inspections. Please comply with any local ordinances and regulation specifying inspections.
- 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.
- As for collecting explosive dust, consult with your Amano representative, since dust explosion pressure diffusion type dust collector are available.

■ VNA, PiE, 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 (PiH)

- 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, VNA-SDN/DN, PiE-SD, PiE-SDN/DN, IX-D, IP-D)

- Be sure to read the instruction manual thoroughly before getting started, and use the machine correctly.
- Dust explosion pressure diffusion type dust collectors collect dust rated as potentially explosive, and inflammable dust confirmed as okay for collection.
- 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 evaluation (billable) made for the extent of dust explosiveness, and only device on dust confirmed to be collectable by this device.
- Our company can bear no responsibility for deciding if a dust is collectable when not known if the dust is rated as explosive or not.
- Consult our branch office or distributor for ratings of explosive type dust.
- 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.
- 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.
- 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 inflammable, explosive or corrosive.
- Please comply with any legal regulations that are established for this device
- 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.
- The dust packs are for preventing electrical charge buildup, so, please do not use them.
- Comply with instructions on servicing as described in the instruction manual, and perform daily and periodic inspections. Please comply with any legal regulations and ordinances that specify inspections.
- In the event a dust explosion occurs please request an inspection by our company.
- 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 with our company beforehand.

■ Fume Collector FD-10, HF, FCN

- Be sure to read the instruction manual thoroughly before getting started, and use the machine correctly.
- 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 inflammable, explosive or corrosive.
- Please comply with any legal regulations that are established for this device
- 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.
- Comply with instructions on servicing as described in the instruction manual, and perform daily and periodic inspections. Please comply with any legal regulations and ordinances that specify inspections.
- 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.
- As for collecting explosive dust, consult with your Amano representative, since dust collectors equipped with anti-explosion mechanisms are available.

■ DB

- Before collecting explosive dust, consult with your Amano representative, since dust explosion pressure diffusion type dust collector are available.
- The spark-killer DB series is a preprocessor device for preventing sparks from entering within the dust collector.
- Do not suction the following materials (they could cause explosions):
 - 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 inflammable, explosive or corrosive.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket.
- 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.

■ SR

- Be sure to read the instruction manual thoroughly before getting started, and use the machine correctly.
- The SR Series dust collectors are preprocessor devices designed to prevent 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 (they could cause explosions):
 - 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 inflammable, explosive or corrosive.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket or dust pack.
- 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.

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

- Be sure to read the instruction manual thoroughly before getting started, and use the machine correctly.
- 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 inflammable, explosive or corrosive.
- Please comply with any legal regulations that are established for this device
- 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.
- Comply with instructions on servicing as described in the instruction manual, and perform daily and periodic inspections. Please comply with any legal regulations and ordinances that specify inspections.
- 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.

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

- Be sure to read the instruction manual thoroughly before getting started, and use the machine correctly.
- Dust explosion pressure diffusion type industrial vacuum cleaner collect dust rated as potentially explosive, and inflammable dust confirmed as okay for collection.
- 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 evaluation (billable) made for the extent of dust explosiveness, and only use on dust confirmed to be collectable by this device.
- Our company can bear no responsibility for deciding if dust is collectable in case of inflammable dust that was not rated for dust explosiveness.
- Consult our branch office or distributor for ratings of explosive type dust.
- 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 inflammable, explosive or corrosive.
- Please comply with any legal regulations that are established for this device

- 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.
- The dust packs are for preventing electrical charge buildup so please do not use them.
- Comply with instructions on servicing as described in the instruction manual, and perform daily and periodic inspections. Please comply with any legal regulations and ordinances that specify inspections.
- In the event a dust explosion occurs please request an inspection by our company.
- 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 consults our company beforehand.

■ VF-2LD

- Be sure to read the instruction manual thoroughly before getting started, and use the machine correctly.
- Recoverable items are combustible organic powder meeting the following standards confirmed as usable in this unit which is rated for ordinary dust and potentially explosive dust.
 - Kstvalue 300×10³kPam/s or less
 - Pmax: 11×10²kPa 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. Our company can bear no responsibility for deciding if dust is collectable in case of dust that was not rated for dust explosiveness.
- Consult our branch office or distributor for ratings of explosive type dust.
- 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 inflammable, explosive or corrosive.
- Please comply with any legal regulations that are established for this device
- 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.
- Comply with instructions on servicing as described in the instruction manual, and perform daily and periodic inspections.
 - Please comply with any legal regulations and ordinances that specify inspections.
- This device is intended for usage and transactions within Japan and the manufacturer bears no responsibility whatsoever for usage overseas.
- Discharge dust collected in the bucket every day, and do not allow dust to accumulate within the bucket.

- The dust packs are for preventing electrical charge buildup, so, please do not use them.
- Devices where explosions occurred cannot be reused.

■ Oil and Water-Soluble Mist Collectors (EM-e, EM-eH, EM-SC, MZ, MJ, MS)

- Be sure to read the instruction manual thoroughly before getting started, and use the machine correctly.
- This machine is designed to handle water-soluble and oily cutting fluids.
- During intake (suction) of oily mist in the MZ:MJ series, attach and use the after-filter option.
- Do not suction the following materials:
 - Flammable materialsgasoline, 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 at lower than each product's maximum inlet dust 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 use misty gas containing inflammable, explosive, corrosive substances in locations where accumulated or in the vicinity of those locations.
- 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.
- On Electrostatic precipitator Mist Collectors (EM-e/eH series) 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.
- On self-cleaning electric dust collectors (EM-SC series) perform maintenance of electrodes according to the following items.
- Inspect for dust contamination adhering to parts at least once a year.
- If dust or contamination has accumulated up to 2mm(0.07inch) at time of inspection then wash it away.
- If the unit shuts down and stops even after frequent inspections, then clean it.
- 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 cleaning the unit.
 - Operating the unit with fluid containing inflammable substances may cause it to ignite and lead to explosions or fires.
- **【Inflammable substances whose use is prohibited】**
- 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/fat removal when cleaning this unit and when cleaning oily detergent adhering to the collecting unit.
 - During use, always comply with the instructions listed on the detergent.

■ Water-Soluble Mist Collectors (MC-45)

- Be sure to read the instruction manual thoroughly before getting started, and use the machine correctly.
- This machine is designed to handle water-soluble mist.
- Do not suction the following materials:
 - Flammable materialsgasoline, 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 fluid
 - To 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 at lower than product 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 use misty gas containing inflammable, explosive, corrosive substances in locations where accumulated or in the vicinity of those locations.
- 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.

■ SS-N

- Be sure to read the instruction manual thoroughly before getting started, and use the machine correctly.
- 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 fluid level in the device 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 use in locations where inflammable, corrosive mist, smoke, or gas is convecting (transferring heat) or locations where potentially explosive inflammable dust is in the air or in the vicinity of those locations.
- Please comply with any legal regulations that are established for this device
- 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).
- Comply with instructions on servicing as described in the instruction manual, and perform daily and periodic inspections.
 - Please comply with any legal regulations and ordinances that specify inspections.
- 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.

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

- Be sure to read the instruction manual thoroughly before getting started, and use the machine correctly.
- This device is a dust collector that traps fumes emitted 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 device 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 inflammable, explosive or corrosive.
- Please comply with any legal regulations that are established for this device
- 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.
- Comply with instructions on servicing as described in the instruction manual, and perform daily and periodic inspections.
 - Please comply with any legal regulations and ordinances that specify inspections.
- 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 consults our company beforehand.

■ TFP,TFP-S,HGD

Be sure to read the instruction manual thoroughly before getting started, and use the machine correctly.