



AMANO Corporation

ENVIRONMENTAL SYSTEMS

GENERAL CATALOG

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

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



Head Office : 275 Mamedochō, Kohoku-ku, Yokohama-shi, Kanagawa, 222-8558 JAPAN
PHONE : +81 (45) 401-1441 FAX : +81 (45) 439-1150

<https://www.amano.co.jp/English/products/environment.html>

Design and specifications are subject to change without notice.

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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.





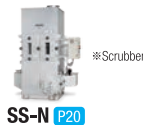










High-level environmental tech fostered in Japan to all types of factories the world over.



Total engineering to environmental issues confronting plant management.

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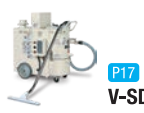

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Compact Dust Collectors

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

| | | |
|----------------------|--------------------------|---|
| Preprocessing device | Cyclone |  |
| | Centrifugal pre-dust box |  |


Vacuum Cleaners

| | Manual shaking | Pulse jet |
|--|---|---|
| General dry dust |  |  |
| For potentially explosive power or dust <div>With explosion pressure diffusion port</div> |  | |
| 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).

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



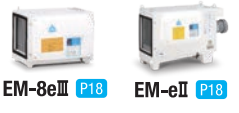





Large-scale Dust Collectors








| | Medium and lower pressure (static pressure up to 5 kPa) | | High pressure (static pressure up to 20 kPa) |
|---|--|---|---|
| | Large air volume (up to 1000m³/min[3531cfm]) | Medium air volume (up to 100m³/min[3531cfm]) | |
| Plate filter |  | | |
| Woven filter |  | | |
| Woven filter |  |  |  |
| High-temperature toxic gas eliminator system |  | | |
| Molded cartridge filter |  |  |  |
| Bag-in bag-out type |  | | |
| Stainless steel specifications (for high pharmacologically-active 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 (50m³/min [1765cfm] or more) |  | |  | |
| Small air volume (up to 50m³/min [1765cfm]) |  |  |  |  |

Pneumatic Conveying Systems

| | | | Pressure feed | Vacuum feed |
|--|--|--------------------------|---|---|
| | | | | |
| Large volume conveyor (up to 200 tons/h) | High pressure (Compressor) | Blow pot type |  | |
| | | High sealing feeder type |  | |
| Small volume conveyor (up to 2 tons/h) | Low pressure(Blower) | |  |  |
| | | Blower type | |  |
| | For foodstuff and pharmaceutical plants | Ejector pump type | |  |
| | For general-purpose plants and factories | Blower type | |  |

VF-5N

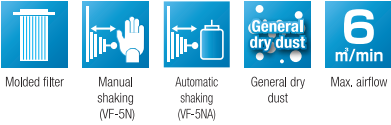
Minisize fits securely into work bed.
Compact size and low-noise make it ideal for indoor work.

Compact body



Molded cartridge filter

| Specifications | | | | |
|-------------------------|----------------|---|------|-------------------|
| Model | | VF-5N | | VF-5NA |
| Power supply | | Single phase 100V or 3-phase 200V 50Hz or 60Hz (or voltage/frequency listed on product name plate) | | |
| Output | kW | 0.4 | | |
| | HP | 0.5 | | |
| Airflow | m³/min | 0 | 3.5 | 6.0 |
| | cfm | 0 | 123 | 211 |
| Static pressure [kPa] | | 2.65 | 1.76 | 0.98 |
| Filter | Area | m² | 1.6 | |
| | | ft² | 17.2 | |
| | Quantity | 1 | | |
| | Shape/Material | Molded cartridge/Polyester Spunbond | | |
| Dust removal | | Manual shaking | | Automatic shaking |
| Bucket capacity | L | 6.5 | | |
| | U.S.gallon | 1.7 | | |
| Recommended breaker [A] | | 15 (Single-phase 100V) / 5 (3-phase 200V) | | |
| Power cord | m | ● Single-phase 100V, 2.3 (3 core with plug) ● 3-phase 200V, 2.7 (4 core without plug) | | |
| | inch | ● Single-phase 100V, 90 (3 core with plug) ● 3-phase 200V, 106 (4 core without plug) | | |
| Suction port diameter | mm | 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) F35-B5A | | |



IS-15

Superb dust collection capability and easy handling!

Built-in cyclone



Molded cartridge filter

| Specifications | | | | | |
|----------------------------|-----------------------|---|-------------------------------------|-------|--|
| Model | | IS-15 | | | |
| Power supply | | 3-phase 200V 50/60Hz common use | | | |
| Output | | kW | 0.75 | | |
| | | HP | 1 | | |
| 50Hz | Airflow | m³/min | 0 | 6.0 | |
| | | cfm | 0 | 211 | |
| 60Hz | Static pressure [kPa] | | 2.0 | 1.1 | |
| | | | | 0.4 | |
| | Airflow | m³/min | 0 | 7.5 | |
| | | cfm | 0 | 264.8 | |
| 60Hz | Static pressure [kPa] | | 2.8 | 1.5 | |
| | | | | 0.4 | |
| | Filter | Area | m² | 4.1 | |
| | | | ft² | 44.1 | |
| Filter | Quantity | | 1 | | |
| | Shape/Material | | Molded cartridge/Polyester Spunbond | | |
| | Dust removal | | Manual shaking | | |
| Bucket capacity | L | 20 | | | |
| | U.S.gallon | 5.2 | | | |
| Recommended breaker [A] | | 10 | | | |
| Power cord | m | 3 (4-core, without plug) | | | |
| | inch | 118 (4-core, without plug) | | | |
| Suction port diameter [mm] | mm | 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 | | J.P.M.A (Japan Paint Manufacturing Association) (Body F35-B5A, Top/Bottom YN40) | | | |



VNA

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



Woven plate filter



| Specifications | | | | | | | | | | | | | | | | | | | |
|-------------------------|----------------|--|------|------|------|------|--|------|------|------|----------------|------|------|----------------|----------------|-----------------|-------|--|--|
| Model | | VNA-15 | | | | | VNA-30 | | | | VNA-45 | | | VNA-60 | | VNA-120 | | | |
| Power supply | | Frequency 50Hz or 60Hz at 3-phase 200V | | | | | | | | | | | | | | | | | |
| Output | kW | 0.75 | | | | | 1.5 | | | | 2.2 | | | 3.7 | | 7.5 | | | |
| | HP | 1 | | | | | 2 | | | | 3 | | | 5 | | 10 | | | |
| Airflow | m³/min | 0 | 7.5 | 12 | 0 | 15 | 28 | 0 | 22 | 40 | 0 | 30 | 55 | 0 | 60 | 110 | | | |
| | cfm | 0 | 264 | 423 | 0 | 529 | 988 | 0 | 776 | 1412 | 0 | 1059 | 1942 | 0 | 2118 | 3884 | | | |
| Static pressure [kPa] | | 2.45 | 1.77 | 0.69 | 2.55 | 2.10 | 1.20 | 2.55 | 2.20 | 1.00 | 2.90 | 2.35 | 0.80 | 3.20 | 2.94 | 0.70 | | | |
| Filter | Area | m² | | | | | 4.5 | | | | 9.0 | | | 13.5 | | 18.0 | | | |
| | | ft² | | | | | 48.4 | | | | 96.8 | | | 145.2 | | | 193.6 | | |
| | Quantity | 1 | | | | | 2 | | | | 3 | | | 4 | | 8 | | | |
| | Shape/Material | Woven plate/ canvas | | | | | | | | | | | | | | | | | |
| Dust removal | | Manual shaking | | | | | Manual shaking (Option: Automatic shaking) | | | | | | | | | | | | |
| 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) | | | | | | | | | | | | | Option(4-core) | | | | |
| | inch | 118 (4-core, without plug) | | | | | | | | | | | | | Option(4-core) | | | | |
| 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 | 92 | | | | | 145 | | | | 180 | | | 270 | | 510 | | | |
| | lb | 203 | | | | | 320 | | | | 397 | | | 596 | | 1125 | | | |
| Paint color | | JPMA (Japan Paint Manufacturing Association) F35-B5A | | | | | | | | | | | | | | | | | |

PiF 15/30/45/60

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

Pulse jet type (By differential pressure detection)

Automatic airflow control



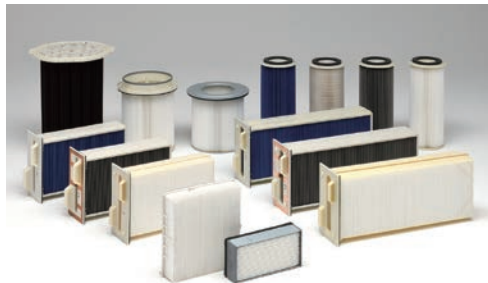
Molded cartridge filter (length:500mm)

Energy and space-saving pulse-jet dust collector



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

| Specifications | | | | | | | | | | | with inverter | | | |
|------------------------------------|---------------------|--|--|------|----------------|--------|------|----------------|--------|------|----------------|--------|------|------|
| Model | | | PiF-15 | | | PiF-30 | | | PiF-45 | | | PiF-60 | | |
| Power supply | | | 3-phase 200V 50/60Hz common use | | | | | | | | | | | |
| Motor | Output | kW | 0.6 | | | 1.35 | | | 2.0 | | | 3.1 | | |
| | | HP | 0.8 | | | 1.8 | | | 2.6 | | | 4.1 | | |
| | Inverter Efficiency | Standard equipment | | | | | | | | | | | | |
| Airflow | m³/min | cfm | IE2 | | | | | | IE3 | | | | | |
| | | | 0 | 10 | 18 | 0 | 20 | 30 | 0 | 30 | 45 | 0 | 40 | 60 |
| Static pressure [kPa] | | | 2.65 | 1.80 | 0.50 | 2.65 | 2.06 | 1.08 | 2.65 | 1.96 | 0.64 | 3.00 | 2.26 | 0.98 |
| Filter | Quantity | 2 | | | 4 | | | 6 | | | 8 | | | |
| | Shape | Molded cartridge (length:500mm) | | | | | | | | | | | | |
| | Dust removal | Automatic pulse jet (By differential pressure detection) | | | | | | | | | | | | |
| | Material | Polyester Spunbond | | | | | | | | | | | | |
| Area | m² | 6.0 | | | 12.0 | | | 18.0 | | | 24.0 | | | |
| | ft² | 64.5 | | | 129.1 | | | 193.6 | | | 258.2 | | | |
| Compressed air consumption [L/min] | | | 30 | | | 36 | | | 45 | | | 67 | | |
| Diaphragm valve [pcs.] | | | 2 | | | 2 | | | 3 | | | 4 | | |
| Bucket capacity | L | 22.5 | | | | | | 14×2 | | | 22.5×2 | | | |
| | U.S.gallon | 5.9 | | | | | | 3.6×2 | | | 5.9×2 | | | |
| Recommended breaker [A] | | | 10 | | | 15 | | | 20 | | | 30 | | |
| Power cord | m | 3 (4-core, without plug) | | | | | | | | | | | | |
| | inch | 118 (4-core, without plug) | | | | | | | | | | | | |
| Suction port diameter | mm | φ127 | | | φ150 | | | φ200 | | | φ250 | | | |
| | inch | φ5 | | | φ6 | | | φ8 | | | φ10 | | | |
| Dimensions W×D×H | mm | 520×650×1200 | | | 520×650×1617 | | | 680×650×1645 | | | 950×650×1797 | | | |
| | inch | 20.5×25.6×47.2 | | | 20.5×25.6×63.7 | | | 26.8×25.6×64.8 | | | 37.5×25.6×70.7 | | | |
| Weight | kg | 127 | | | 163 | | | 208 | | | 315 | | | |
| | lb | 280 | | | 360 | | | 459 | | | 695 | | | |
| Paint color | | | JPMA (Japan Paint Manufacturing Association) F35-B5A | | | | | | | | | | | |



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

Hosoe Factory manufactures products under strict quantity supervision.



Hosoe Facility

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

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

PiF 75/120/150

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

- Pulse jet by differential pressure detection
- Automatic airflow control

- Energy Saving
- Premium efficiency motor(IE3)
- Inverter control improves filter life
- Easy filter replacement
- Oneside filter inlet



Specifications

| Model | | PiF-75 | | | PiF-120 | | | PiF-150 | | |
|------------------------------------|---------------------|--|--|--|-----------------|--|--|-----------------|--|--|
| Power supply | | 3-phase 200V 50/60Hz common use | | | | | | | | |
| Motor | Output | kW | | | 7.5 | | | 11.0 | | |
| | HP | 7.3 | | | 10.0 | | | 15.0 | | |
| | Inverter Efficiency | Standard equipment IE3 | | | | | | | | |
| Airflow | | m³/min | | | 0 60 90 | | | 0 80 110 | | |
| | | cfm | | | 0 2118 3178 | | | 0 2825 3884 | | |
| Static pressure [kPa] | | 3.10 2.50 0.70 | | | 3.20 2.50 0.60 | | | 3.10 2.50 0.70 | | |
| Filter | Area | m² | | | 38.4 | | | 86.4 | | |
| | | ft² | | | 413.3 | | | 930 | | |
| | Quantity | 8 | | | 12 | | | 18 | | |
| | Shape / Material | Molded cartridge (length:750mm) / Polyester spunbond | | | | | | | | |
| Dust removal | | Automatic pulse jet (by differential pressure detection) | | | | | | | | |
| Compressed air consumption [L/min] | | 75 | | | 86 | | | 100 | | |
| Diaphragm valve [pcs.] | | 4 | | | 6 | | | 6 | | |
| Suction port diameter | | mm | | | ø300 | | | ø380 | | |
| | | inch | | | φ12 | | | φ15 | | |
| Recommended breaker [A] | | 50 | | | 60 | | | 75 | | |
| Power cord | | Option(4-core) | | | | | | | | |
| BO type | Dimensions | mm | | | 950×950×1737 | | | 1398×950×1731 | | |
| | W×D×H | inch | | | 37.4×37.4×68.3 | | | 55.0×37.4×68.3 | | |
| | Weight | kg | | | 360 | | | 460 | | |
| Bucket BS type | | lb | | | 794 | | | 1015 | | |
| | Dimensions | mm | | | 950×950×1927 | | | 1398×950×2062 | | |
| | W×D×H | inch | | | 37.4×37.4×75.8 | | | 55.0×37.4×81.1 | | |
| Bucket BL type | Weight | kg | | | 400 | | | 550 | | |
| | | lb | | | 882 | | | 1213 | | |
| | Bucket capacity | L | | | 22.5×2 | | | 22.5×3 | | |
| Bucket BL type | | U.S.gallon | | | 5.9×2 | | | 5.9×3 | | |
| | Dimensions | mm | | | 990×990×2419 | | | 1413×965×2382 | | |
| | W×D×H | inch | | | 39×39×95.2 | | | 55.6×38.0×93.7 | | |
| Hopper F type | Weight | kg | | | 460 | | | 570 | | |
| | | lb | | | 1014 | | | 1257 | | |
| | Bucket capacity | L | | | 100 | | | 130 | | |
| Hopper F type | | U.S.gallon | | | 26.4 | | | 34.3 | | |
| | Dimensions | mm | | | 962×962×3538 | | | 1410×962×3832 | | |
| | W×D×H | inch | | | 37.9×37.9×139.2 | | | 55.5×37.9×150.8 | | |
| Hopper capacity | Weight | kg | | | 640 | | | 820 | | |
| | | lb | | | 1411 | | | 1808 | | |
| | | L | | | 314 | | | 610 | | |
| Paint color | | U.S.gallon | | | 83 | | | 161.1 | | |
| | | JPMA (Japan Paint Manufacturing Association) F35-85A | | | | | | | | |



Molded cartridge filter (length:750mm)

with inverter

PiF 200/300

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

- Pulse jet by differential pressure detection
- Automatic airflow control

- Energy Saving
- Premium efficiency motor(IE3)
- Inverter control improves filter life
- Easy filter replacement
- Oneside filter inlet



Specifications

| Model | | PiF-200 | | | | PiF-300 | | | |
|------------------------------------|--|--|-----------------|------|------|---------|------------------|-------|--|
| Power supply | | 3-phase 200V 50/60Hz common use | | | | | | | |
| Motor | Output | kW | 15.0 | | | | 22.0 | | |
| | | HP | 20.0 | | | | 30.0 | | |
| | Inverter Efficiency | Standard equipment IE3 | | | | | | | |
| Airflow | | m³/min | 0 | 160 | 190 | 0 | 240 | 290 | |
| | | cfm | 0 | 5650 | 6709 | 0 | 8475 | 10238 | |
| Static pressure [kPa] | | | 4.00 | 2.40 | 0.40 | 4.00 | 2.40 | 0.40 | |
| Filter | Area | m² | 115.2 | | | | 172.8 | | |
| | | ft² | 1240 | | | | 1860 | | |
| | Quantity | 24 | | | | 36 | | | |
| | Shape / Material | Molded cartridge (length:750mm) / Polyester spunbond | | | | | | | |
| Dust removal | Automatic pulse jet (by differential pressure detection) | | | | | | | | |
| Compressed air consumption [L/min] | | | 100 | | | | 100 | | |
| Diaphragm valve [pcs.] | | | 8 | | | | 12 | | |
| Suction port diameter | | | ø450 | | | | ø580 | | |
| | | | ø17.8 | | | | ø22.9 | | |
| Recommended breaker [A] | | | 125 | | | | 175 | | |
| Power cord | | Option (4-core) | | | | | | | |
| Bucket BL type | Dimensions W×D×H | mm | 2132×1130×3667 | | | | 3028×1230×3922 | | |
| | | inch | 83.9×44.5×144.4 | | | | 119.2×48.4×154.4 | | |
| | Weight | kg | 1270※1 | | | | 1840※2 | | |
| Bucket capacity | | lb | 2800※1 | | | | 4057※2 | | |
| | | L | 200 (100×2) | | | | 260 (130×2) | | |
| | | U.S.gallon | 52.8 (26.4×2) | | | | 68.7 (34.3×2) | | |
| Paint color | | JPMA (Japan Paint Manufacturing Association) F35-85A | | | | | | | |

※1 Self-standing electrical box (120kg/264.5lb) is not included.
※2 Self-standing electrical box (130kg/286.6lb) is not included.

※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

Small high-pressure dust collector



Molded cartridge filter



Strong suction power

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



Specifications

| Model | | VF-2S | | |
|----------------------------|----------------|---|--|--------------------------------------|
| Power supply | | 3-phase 200V 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 | | |
| Max. Airflow | m³/min | 2.7±0.3 (200V 3-phase) | | |
| | cfm | 95±10 (200V 3-phase) | | |
| Max. static pressure [kPa] | m² | 2.5±0.3 (100V single-phase) | | |
| | ft² | 88±10 (100V single-phase) | | |
| Filter | Area | 0.67 | | |
| | Quantity | 7.2 | | |
| | Shape/Material | Molded cartridge/ Polyester Spunbond | | |
| | Dust removal | Manual shaking | | |
| Bucket capacity | L | 2.2 | | |
| | U.S.gallon | 0.58 | | |
| Recommended breakers [A] | | 10 (200V 3-phase) | | 15 (100V single-phase) |
| Power cord | m | 2.8 (without plug) | | |
| | inch | 110 (without plug) | | |
| Suction port diameter | mm | φ50.8 | | |
| | inch | φ2 | | |
| Dimensions W×D×H | mm | 395×342×399 | | |
| | inch | 15.6×13.5×15.8 | | |
| Weight | kg | 26 (3-phase 200V specification) | | 29 (Single-phase 100V specification) |
| | lb | 58 (3-phase 200V specification) | | 64 (Single-phase 100V specification) |
| Paint color | | JPMA (Japan Paint Manufacturing Association) F35-85A | | |

PiF-MP/HP

2 times more vacuum power for small diameter hose or multiple suction points.



Molded cartridge filter (length:500mm)

Specifications

| Model | PiF-30MP | | | | | | PiF-45MP | | | | | | PiF-60MP | | | | | | PiF-15HP | | | | | | PiF-30HP | | | | | | |
|------------------------------------|-----------------------------|--|-----|------|-----|-----|--------------|----------------|------|------|-----|--------------|-----------|----------------|-----|------|--------------|-----|-----------|----------------|-----|--------------|--|--|-----------|----------------|--|--|--|--|--|
| Type | | | | | | | | | | | | | | | | | | | 6kPa | | | | | | | | | | | | |
| Power Supply | 50Hz 60Hz, Three-Phase 200V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Output (kW) | 2.0 | | | | | | 3.1 | | | | | | 5.5 | | | | | | 3.1 | | | | | | 5.5 | | | | | | |
| Inverter | Included as standard | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Air Flow *see below for more info. | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C | | | | | | | | | | |
| | (m³/min) | 0 | 17 | 30 | 0 | 27 | 40 | 0 | 37 | 50 | 0 | 10 | 25 | 0 | 20 | 30 | | | | | | | | | | | | | | | |
| | (cfm) | 0 | 600 | 1059 | 0 | 953 | 1412 | 0 | 1306 | 1765 | 0 | 353 | 882 | 0 | 706 | 1059 | | | | | | | | | | | | | | | |
| Static Pressure (kPa) | 4.5 | 4.0 | 0.8 | 5.0 | 4.0 | 1.0 | 5.5 | 4.0 | 1.0 | 6.7 | 5.0 | 1.0 | 6.5 | 6.0 | 1.0 | 7.0 | 6.0 | 1.0 | 7.0 | 6.0 | 0.9 | | | | | | | | | | |
| Noise (dB(A)) | | 72±2 or less | | | | | 72±2 or less | | | | | 73±2 or less | | | | | 72±2 or less | | | | | 73±2 or less | | | | | | | | | |
| | | 12.0 / 129.1 | | | | | 18.0 / 193.6 | | | | | 24.0 / 258.2 | | | | | 6.0 / 64.6 | | | | | 12.0 / 129.1 | | | | | | | | | |
| Filter | Surface Area (m²)/(ft²) | 6 | | | | | | 8 | | | | | | 2 | | | | | | 4 | | | | | | | | | | | |
| | Unit (pcs) | 4 | | | | | | 6 | | | | | | 8 | | | | | | 2 | | | | | | | | | | | |
| | Shape/Material | Molded cartridge / Polyester spunbond | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dust Removal | Auto pulse jet (Differential pressure detection) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compressed Air Consumption (L/min) | 36 | | | | | | 45 | | | | | | 67 | | | | | | 30 | | | | | | 36 | | | | | | |
| Diaphragm Valve (pcs) | 2 | | | | | | 3 | | | | | | 4 | | | | | | 2 | | | | | | 2 | | | | | | |
| Bucket Capacity (L) | 22.5 | | | | | | 14×2 | | | | | | 22.5×2 | | | | | | 22.5 | | | | | | 22.5 | | | | | | |
| Recommended Breaker (A) | 20 | | | | | | 30 | | | | | | 50 | | | | | | 30 | | | | | | 50 | | | | | | |
| Power Cord (m) | 3 (4-core without plug) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Suction Port Diameter (mm)/(in) | ø150 / 6 | | | | | | ø200 / 8 | | | | | | ø250 / 10 | | | | | | ø127 / 5 | | | | | | ø150 / 6 | | | | | | |
| Dimensions | W x D x H (mm) | 520×650×1687 | | | | | | 680×650×1690 | | | | | | 950×650×1878 | | | | | | 521×651×1537 | | | | | | 521×651×1867 | | | | | |
| | W x D x H (in) | 20.5×25.6×66.4 | | | | | | 26.8×25.6×66.5 | | | | | | 37.4×25.6×73.9 | | | | | | 20.5×25.6×60.5 | | | | | | 20.5×25.6×73.5 | | | | | |
| Weight (kg)/(lbs.) | 189 / 416 | | | | | | 246 / 542 | | | | | | 350 / 771 | | | | | | 196 / 432 | | | | | | 267 / 588 | | | | | | |
| Paint Color | JPM4 F35-85A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

IP

Molded filter

Pulse jet

General dry dust

6 m/min

Max. airflow

IX

Resin filter

Pulse jet

Fine powder

6 m/min

Max. airflow



Standard filter (Polyester)



Resin filter (Polyethylene)

Filter Unit Specifications

| Model | | IP-3 | IP-3D | IX-3 | IX-3D | IP-5 | IP-5D | IX-5 | IX-5D | |
|------------------------------------|------------|---|-------|-----------------|-------|-------------|-------|-----------------|-------|------|
| Power supply | | 3-phase 200V 50/60Hz common use | | | | | | | | |
| Filter | Area | m ² | 3.5 | | 3.2 | | 4.7 | | 4.8 | |
| | Quantity | ft ² | 37.6 | | 34.4 | | 50.5 | | 51.6 | |
| | | | 3 | | 27 | | 3 | | 27 | |
| | Shape | Molded cartridge | | | | | | | | |
| | Material | Polyester | | polyethylene | | Polyester | | polyethylene | | |
| Dust removal | | Automatic pulse jet (At fixed interval) | | | | | | | | |
| Diaphragm valve [pcs.] | | 3 | | | | | | | | |
| Compressed air consumption [L/min] | | 5.4~15.0 | | 8.5~30.0 | | 5.4~15.0 | | 8.5~30.0 | | |
| Suction port diameter | mm | φ50.8 | | | | φ63.5 | | | | |
| | inch | φ2 | | | | φ2.5 | | | | |
| Exhaust port diameter | mm | φ76.3 | | | | | | | | |
| | inch | φ3 | | | | | | | | |
| Method of standard discharge | | Bucket tank | | Discharge valve | | Bucket tank | | Discharge valve | | |
| Bucket capacity | L | 30 | | — | | 30 | | — | | |
| | U.S.gallon | 7.9 | | — | | 7.9 | | — | | |
| Dimensions | mm | W | 653 | 881 | 651 | 879 | 653 | 881 | 651 | 879 |
| | | D | 658 | 658 | 654 | 654 | 658 | 658 | 654 | 654 |
| | | H | 1409 | 1537 | 1568 | 1696 | 1609 | 1737 | 1768 | 1896 |
| | inch | W | 25.8 | 34.7 | 25.7 | 34.7 | 25.8 | 34.7 | 25.7 | 34.7 |
| | | D | 26.0 | 26.0 | 25.8 | 25.8 | 26.0 | 26.0 | 25.8 | 25.8 |
| | | H | 55.5 | 60.6 | 61.8 | 66.8 | 63.4 | 68.4 | 69.7 | 74.8 |
| Weight | kg | 65 | 83 | 65 | 83 | 70 | 88 | 70 | 88 | |
| | lb | 143 | 183 | 143 | 183 | 154 | 194 | 154 | 194 | |
| Paint color | | JPMA (Japan Paint Manufacturing Association) (Body F35-85A, Top/Bottom YN40) | | | | | | | | |

Blower Unit Specifications

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

SP

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

Water-washable filters available



*Casters available as options.

All-stainless steel body dust collector

Woven filter

Manual shaking

General dry dust

55 m/min

Max. airflow

Premium efficiency motor

IE3



Woven plate filter



Specifications

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

FP-N

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

All-stainless steel body medium pressure dust collector

Standard filter type

Molded filter

Pulse jet

General dry dust

10 m/min

Max. airflow

Resin filter type

Resin filter

Pulse jet

Fine powder

8 m/min

Max. airflow

Specifications

| Model | | FP-5N | | | | | | FP-10N | | | | | |
|------------------------------------|--------------|--|-----|-----|--------------|-----|-----|--------------------|-----|------|---------------|-----|-----|
| Filter type | | Standard filter | | | Resin filter | | | Standard filter | | | Resin filter | | |
| Power supply | | 3-phase 200V 50/60Hz common use | | | | | | | | | | | |
| Output | kW | 1.5 | | | | | | 2.2 | | | | | |
| | HP | 2 | | | | | | 3 | | | | | |
| Airflow | m³/min | 0 | 5.0 | 8.0 | 0 | 3.2 | 6.0 | 0 | 8.0 | 10.0 | 0 | 6.5 | 8.0 |
| | cfm | 0 | 176 | 282 | 0 | 113 | 211 | 0 | 282 | 353 | 0 | 229 | 282 |
| Static pressure | kPa | 8.5 | 5.5 | 3.2 | 8.5 | 6.1 | 3.1 | 8.5 | 5.5 | 3.4 | 8.5 | 5.6 | 4.2 |
| | m² | 4.5 | | | 2.6 | | | 4.5 | | | 5.2 | | |
| Filter | ft² | 48.4 | | | 27.9 | | | 48.4 | | | 55.9 | | |
| | Quantity | 2 | | | 4 | | | 2 | | | 8 | | |
| | Shape | Molded cartridge | | | | | | | | | | | |
| | Material | Polyester Spunbond | | | Polyethylene | | | Polyester Spunbond | | | Polyethylene | | |
| | Dust removal | Auto pulse jet (fixed gap [pressure differential detector as an option]) | | | | | | | | | | | |
| Compressed air consumption [L/min] | | 20 | | | | | | 30 | | | | | |
| Diaphragm valve [pcs.] | | 2 | | | | | | 2 | | | | | |
| Exterior finish | | All SUS electrolytic grinding finish | | | | | | | | | | | |
| Bucket capacity | L | 20 | | | | | | 37 | | | | | |
| | U.S.gallon | 5.2 | | | | | | 9.7 | | | | | |
| Recommended breakers [A] | | 15 | | | | | | 20 | | | | | |
| Power cord | | Option (4-core) | | | | | | | | | | | |
| Suction port diameter | mm | φ100 | | | | | | | | | | | |
| | inch | φ4 | | | | | | | | | | | |
| Dimensions W×D×H | mm | 617×966×1488 | | | 617×966×1472 | | | 617×966×1488 | | | 753×1071×1473 | | |
| | inch | 24.3×38.1×58.6 | | | 24.3×38.1×58 | | | 24.3×38.1×58.6 | | | 29.7×42.2×58 | | |
| Weight | kg | 190 | | | 195 | | | 200 | | | 230 | | |
| | lb | 419 | | | 430 | | | 441 | | | 508 | | |

FPV-2S

Easily-washable high-pressure vacuum unit.

High static pressure 20 kPa

All-stainless steel body small-size high-pressure dust collector

Molded filter

Resin filter

Pulse jet

Fine powder

2.7 m/min

Max. airflow



Resin filter (Polyethylene)



Molded cartridge filter

Filter Unit Specifications

| Power supply | 3-phase 200V 50/60Hz common use | |
|----------------------------|---|-----------------|
| Filter | Area | m ² |
| | | ft ² |
| | Quantity | |
| | Shape | |
| | Material | |
| Dust removal | | |
| | | |
| Bucket capacity | L | 14 |
| | U.S.gallon | 3.6 |
| Suction port diameter | IDF standard ferrule 2S | |
| Exhaust port diameter | IDF standard ferrule 2S | |
| Dimensions W×D×H | 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.

FCN

Welding work dust collector with fire control function.

- Smoke sensor
- Spark sensor
- Pre-dust box

Molded filter

Pulse jet

Fumes

45
m³/min

IE3
Premium efficiency motor



| Specifications | | | | | | | | | | | |
|------------------------------------|------------|---|--|------|------|----------------|------|-------|----------------|------|------|
| Model | | | FCN-30 | | | FCN-45 | | | FCN-60 | | |
| Power supply | | | Frequency 50Hz or 60Hz at 3-phase 200V | | | | | | | | |
| Output | kW | | 1.5 | | | 2.2 | | | 3.7 | | |
| | HP | | 2 | | | 3 | | | 5 | | |
| Airflow | m³/min | | 0 | 12 | 18 | 0 | 20 | 30 | 0 | 30 | 45 |
| | cfm | | 0 | 423 | 635 | 0 | 706 | 1059 | 0 | 1059 | 1589 |
| Static pressure [kPa] | | | 2.55 | 1.72 | 0.75 | 2.55 | 2.22 | 1.30 | 2.84 | 2.20 | 1.00 |
| Filter | Area | m² | 27.0 | | | 40.5 | | | 60.8 | | |
| | | ft² | 290.5 | | | 435.7 | | | 654.2 | | |
| | Quantity | 4 | | | 6 | | | 9 | | | |
| | Shape | Molded cartridge (length:750mm, 132-ridge φ200 cylinder type) | | | | | | | | | |
| | Material | Polyester Spunbond | | | | | | | | | |
| Dust removal | | | Automatic pulse jet (At fixed interval) | | | | | | | | |
| Diaphragm valve [pcs.] | | | 2 | | | 3 | | | 3 | | |
| Compressed air consumption [L/min] | | | 20 | | | 30 | | | 40 | | |
| Bucket capacity | L | Bottom part of separation box | | | 16 | | | 30 | | | |
| | | Bottom part of dust collector | | | 25 | | | 18×2 | | | |
| | U.S.gallon | Bottom part of separation box | | | 4.2 | | | 7.9 | | | |
| | | Bottom part of dust collector | | | 6.6 | | | 4.7×2 | | | |
| Recommended breakers [A] | | | 15 | | | 20 | | | 30 | | |
| Power cord | m | | 3 (4-core, without plug) | | | | | | | | |
| | inch | | 118 (4-core, without plug) | | | | | | | | |
| Suction port diameter | mm | | φ150 | | | φ200 | | | φ250 | | |
| | inch | | φ6 | | | φ8 | | | φ10 | | |
| Dimensions W×D×H | mm | | 998×651×1817 | | | 1268×660×1827 | | | 1358×840×1897 | | |
| | inch | | 39.3×25.7×71.6 | | | 50.0×26.0×72.0 | | | 53.5×33.1×74.7 | | |
| Weight | kg | | 245 | | | 305 | | | 430 | | |
| | lb | | 541 | | | 673 | | | 949 | | |
| Paint color | | | JPMA (Japan Paint Manufacturing Association) F35-85A | | | | | | | | |

FD-10

Dust collector for welding work.

- Swing arm
- Caster
- Fire extinguishing mechanism

Molded filter

Manual shaking

Fumes

9
m³/min

IE3
Premium efficiency motor



Molded cartridge filter

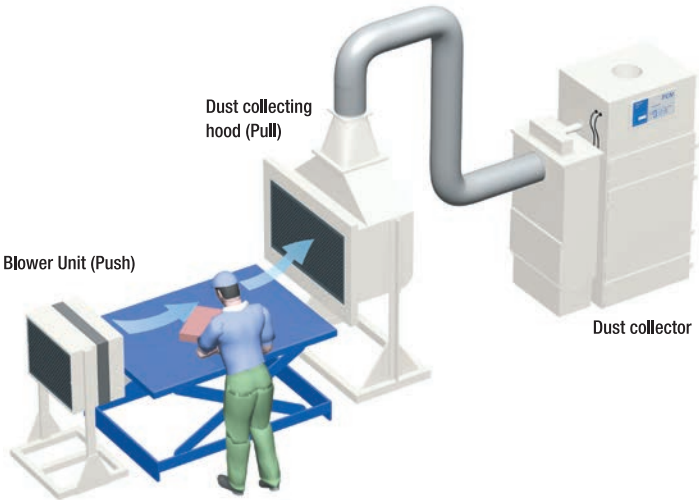
| Specifications | | FD-10 | |
|----------------------------|----------------|--|--|
| Model | | FD-10 | |
| Power supply | | Frequency 50Hz or 60Hz at 3-phase 200V | |
| Output | kW | 0.75 | |
| | HP | 1 | |
| Max. airflow | m³/min | 9.0 | |
| | cfm | 317 | |
| Max. static pressure [kPa] | | 2.5 | |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



HF

Push pull dust collecting system.

Energy Saving and Compact type



| Specifications | | | | | | | | | | |
|----------------------|---|--|---------------------------------|-------|---------------|-------|----------------|--------|------------------|--|
| Model | | HF-45 | | HF-60 | | HF-75 | | HF-150 | | |
| Blower Unit | Power supply | | 3-phase 200V 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 | |
| | Range of injection airflow [50/60Hz] | m³/min | 6.7~28.3/33.7 | | 9.9~45.5/55.4 | | 18.0~57.5/68.3 | | 36.1~137.3/159.0 | |
| | | cfm | 236~999/1190 | | 349~1606/1956 | | 635~2030/2411 | | 1274~4848/5615 | |
| | Weight | kg | 61 | | 76 | | 126 | | 221 | |
| lb | | 135 | | 168 | | 278 | | 488 | | |
| Paint color | | JPMA (Japan Paint Manufacturing Association) F35-85A | | | | | | | | |
| Dust collecting hood | 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) F35-85A | | | | | | | | |

VF-5HG

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

With deodorizing function

Automatic air flow control

Electret filter

Fumes

3
m³/min

Max. airflow



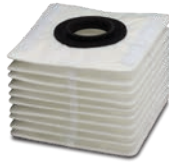
| Specifications | | VF-5HG | |
|----------------------------|-------------------|--|-------------------|
| Model | | VF-5HG | |
| Power supply | | 3-phase 200V | single-phase 100V |
| | | 50/60Hz common use | |
| Output | kW | 1.1 | 0.875 |
| | HP | 1.4 | 1.1 |
| Blower motor | | Brushless blower motor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

VF-5HN

Low-cost laser marker dust collector.

With deodorizing function

Laser marker dedicated dust collector (with deodorizing function)



Electret filter



Activated carbon box



Specifications

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

SS-N

Scrubber for combustible dust. Wet type dust collector.

Scrubber

Wet type dust collector (Scrubber)



Raschig ring



Collection unit

Specifications

with inverter

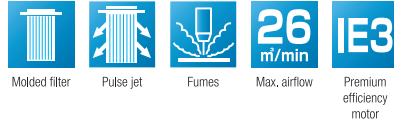
| Model | | SS-30N | SS-40N | SS-60N | SS-75N |
|---|--------------------------------------|--|-------------------|-------------------|-------------------|
| Power supply | | 3-phase 200V 50/60Hz common use | | | |
| Output | kW | 3.7 | | 5.5 | 7.5 |
| | HP | 5 | | 7.3 | 10 |
| Airflow | m³/min | 30 | 40 | 50 | 70 |
| | cfm | 1059 | 1412 | 1765 | 2472 |
| Static pressure [kPa] | | 3.0 | | | |
| Filler | Type | Rashig ring (porcelain) | | | |
| | Size | φ10×10×thickness 2mm | | | |
| | Specific surface area | 650 | | | |
| | | m² | 6996 | | |
| | Filling capacity | ft² | | | |
| L | | 225 | 300 | 360 | 495 |
| Suction /Exhaust port | U.S.gallon | 59.5 | 79.3 | 95.2 | 130.8 |
| | mm | φ200/φ200 | φ250/φ250 | φ300/φ300 | φ350/φ350 |
| Circulation tank | inch | φ8/φ8 | φ10/φ10 | φ12/φ12 | φ14/φ14 |
| | L | 330 | 420 | 510 | 670 |
| Demister | U.S.gallon | 87.1 | 111.0 | 134.7 | 177.0 |
| | mm | 1pc. (515×780) | 2pcs. (370×780) | 2pcs. (515×780) | 2pcs. (615×780) |
| Nozzle | inch | 1pc. (20.3×30.7) | 2pcs. (14.7×30.7) | 2pcs. (20.3×30.7) | 2pcs. (24.3×30.7) |
| | | 4 pcs./10A | 6 pcs./10A | 8 pcs./10A | 10 pcs./10A |
| Circulating pump | Recirculating water quantity [L/min] | 30 | 50 | 75 | 90 |
| | Output | 0.18 | | 0.25 | |
| | | 0.2 | | 0.3 | |
| Water supply | | Water line 0.15MPa or higher/ball-tap (with manual ball valve 15A) | | | |
| Maximum inlet dust concentration/ maximum suction temperature | | 300mg/m³ / 40°C or less | | | |
| Recommended Breaker | | Standard equipped | | | |
| Power cord | | Option (4-core) | | | |
| Dimensions W×D×H | mm | 1445×1000×2480 | 1745×1000×2480 | 1995×1000×2480 | 2520×1000×2580 |
| | inch | 56.9×39.4×97.7 | 68.8×39.4×97.7 | 78.6×39.4×97.7 | 99.3×39.4×101.6 |
| Weight [Not including water] | kg | 610 | 760 | 880 | 1180 |
| | lb | 1345 | 1676 | 1940 | 2602 |

PIF-H

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

With deodorizing function

Laser marking dust collector



Molded cartridge filter (length:750mm)



Specifications

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

VRC-N

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

VOC remover



Specifications


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

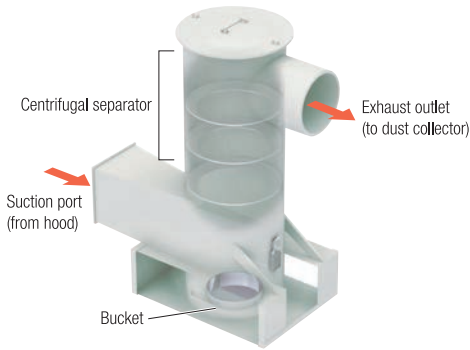
DB

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



Pre-dust box





Centrifugal separator

Exhaust outlet (to dust collector)

Suction port (from hood)

Bucket

■ Specifications


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

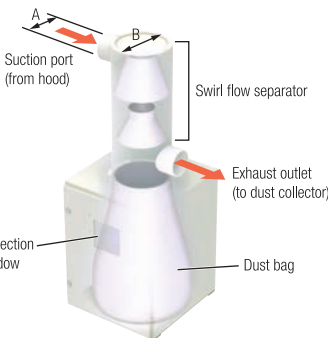
SR

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



Cyclone





Suction port (from hood)

Swirl flow separator

Exhaust outlet (to dust collector)

Inspection window

Dust bag

■ Specifications


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


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

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

V-Σ

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






Molded cartridge filter

■ Specifications

| Model | | V-2Σ | V-3Σ | V-5Σ | V-7Σ |
|--------------------------|--------------|--|------|----------------|------|
| Power supply | | Frequency 50Hz or 60Hz at 3-phase 200V | | | |
| | | | | | |
| Output | kW | 1.5 | 2.2 | 3.7 | 5.5 |
| | HP | 2 | 3 | 5 | 7.3 |
| Airflow | m³/min | 0 | 2.0 | 4.2 | 6.0 |
| | cfm | 0 | 70 | 148 | 211 |
| Static pressure [kPa] | | 9.81 | 9.32 | 5.39 | 14.7 |
| | | | | | |
| Filter | Molded | Area | 2.0 | 2.6 | |
| | | Quantity | 21.5 | 27.9 | |
| Woven | Dust removal | Automatic shaking / Manual shaking | | | |
| | Area | 0.7 | 1.2 | | |
| Dust removal | Quantity | 7.5 | 12.9 | | |
| | | 1 | | | |
| Bucket capacity | L | 27 | 60 | | |
| | U.S.gallon | 7.1 | 15.8 | | |
| Recommended breakers [A] | | 15 | 20 | 30 | 50 |
| | | | | | |
| Power cord | m | 10 (4-core, with plug) | | | |
| | inch | 393 (4-core, with plug) | | | |
| Suction port diameter | mm | φ38.1 | | | |
| | inch | φ1.5 | | | |
| Dimensions W×D×H | mm | 380×908×925 | | 480×1252×1020 | |
| | inch | 15.0×35.8×36.5 | | 18.9×49.3×40.2 | |
| Weight | kg | 100 | 110 | 195 | 220 |
| | lb | 221 | 243 | 430 | 486 |
| Paint color | | JPMA (Japan Paint Manufacturing Association) F35-85A | | | |



Suctions up metal fragments & cutting chips

Collect metal and cutting scraps with stable suction force.

Also functions as vacuum source for factories producing precision components

IPR/IXR

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



IPR



IXR



Standard filter (Polyester)

Resin filter (Polyethylene)

■ Specifications

| Model | | IPR-3 | IPR-4 | IXR-4 | IXR-5 |
|---------------------------------------|------------|---|----------------|--------------|--------------|
| Power supply | | 3-phase 200V 50/60Hz common use | | | |
| | | | | | |
| Control method | | Inverter drive (6 step speed change operation) | | | |
| | | | | | |
| Output | kW | 1.5 | 3.7 | | 5.5 |
| | HP | 2 | 5 | | 7.3 |
| Max. airflow | m³/min | 3.0 | 5.0 | | 6.0 |
| | cfm | 105 | 176 | | 211 |
| Max. static pressure [kPa] | | 13.0 | 23.5 | | 27.0 |
| | | | | | |
| Filter | Area | 3.2 | 4.7 | 4.8 | 4.8 |
| | ft² | 34.4 | 50.5 | 51.6 | 51.6 |
| Quantity | | 1 | | | |
| | | | | | |
| Material | | Polyethylene | Polyester | Polyethylene | Polyethylene |
| | | | | | |
| Dust removal | | Automatic pulse jet (At fixed interval) | | | |
| | | | | | |
| Diaphragm valve [pcs.] | | 3 | | | |
| | | | | | |
| Bucket capacity | L | 30 | | | |
| | U.S.gallon | 7.9 | | | |
| Recommended breakers | | Standard equipment | | | |
| | | | | | |
| Power cord | m | 3.5 (4-core, without plug) | | | |
| | inch | 137 (4-core, without plug) | | | |
| Suction port diameter | mm | φ50.8 | φ63.5 | | |
| | inch | φ2 | φ2.5 | | |
| Dimensions W×D×H | mm | 1254×622×1258 | 1254×622×1458 | | |
| | inch | 49.4×24.5×49.6 | 49.4×24.5×57.5 | | |
| Weight | kg | 200 | 240 | 250 | 275 |
| | lb | 441 | 530 | 552 | 607 |
| Internal compressor operating control | | 3-phase 200V 0.2kW 50/60Hz common use | | | |
| Paint color | | JPMA (Japan Paint Manufacturing Association) F35-85A (roof & bucket unit: YN40) | | | |

V-SDR

Dust explosion pressure diffusion type industrial vacuum cleaner

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

- For metals
- Effect on Kst value
200-160
(SDR) (7SDR)



Molded cartridge filter
(Anti-electrostatic filter)



Specifications

| Model | | V-3SDR | | | V-7SDR | | |
|--------------------------|--------------|--|------|-----|----------------|------|-----|
| Power supply | | Frequency 50Hz or 60Hz at 3-phase 200V | | | | | |
| Output | kW | 2.2 | | | 5.5 | | |
| | HP | 3 | | | 7.3 | | |
| Airflow | m³/min | 0 | 2.4 | 4.8 | 0 | 2.7 | 5.7 |
| | cfm | 0 | 84 | 169 | 0 | 95 | 201 |
| Static pressure [kPa] | | 12.4 | 10.9 | 7.9 | 22.6 | 19.7 | 9.7 |
| Filter | Area | 2.0 | | | 2.6 | | |
| | | 21.5 | | | 27.9 | | |
| | Quantity | 1 | | | | | |
| | Shape | Molded cartridge (Anti-electrostatic filter) | | | | | |
| | Dust removal | Manual shaking | | | | | |
| Bucket capacity | L | 27 | | | 60 | | |
| | U.S.gallon | 7.1 | | | 15.8 | | |
| Recommended breakers [A] | | 20 | | | 50 | | |
| Power cord | m | 15 (4-core, without plug) | | | | | |
| | inch | 590 (4-core, without plug) | | | | | |
| Suction port diameter | mm | ø38.1 | | | | | |
| | inch | ø1.5 | | | | | |
| Dimensions W×D×H | mm | 496×1123×1052 | | | 621×1430×1194 | | |
| | inch | 19.6×44.2×41.5 | | | 24.5×56.2×47.1 | | |
| Weight | kg | 141 | | | 250 | | |
| | lb | 311 | | | 552 | | |
| Paint color | | JPMA (Japan Paint Manufacturing Association) S11-344 | | | | | |

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

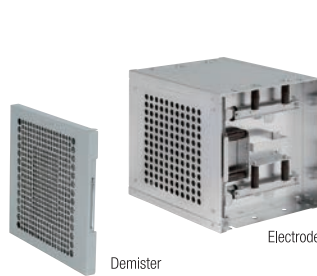
- Molded filter
- Manual shaking
- Inflammable powder/
dust that might explode
- 5.7
m³/min
- Max. airflow

EM-8eIII

Electrostatic precipitator mist collector

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

- Compact



Demister

Electrode

Specifications

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

VF-2LD

Dust explosion pressure diffusion type industrial vacuum cleaner

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

- For toner
- Effect on Kst value 300

Explosion test Our inhouse explosion test photos.



Specifications

| Model | | VF-2LD | |
|--------------------------|------------|---|--------------------------|
| Power supply | | 3-phase 200V | single-phase 100V |
| | | Frequency 50Hz or 60Hz | |
| Output | kW | 1.0 | |
| | HP | 1.3 | |
| Airflow | m³/min | 2.7±0.3 | 2.5±0.3 |
| | cfm | 95±10 | 88±10 |
| Static pressure [kPa] | | 20.0±3.0 | 17.0±2.3 |
| | | | |
| Filter | Area | 2.2 | |
| | m² | 23.6 | |
| | Quantity | 1 | |
| | Shape | Molded cartridge (dedicated toner fine-fil static charge) | |
| Dust removal | | Manual shaking | |
| Bucket capacity | L | 13 | |
| | U.S.gallon | 3.4 | |
| Recommended breakers [A] | | 10 | 15 |
| Power cord | m | 10.3 (4-core, without plug) | 10.3 (3-core, with plug) |
| | inch | 405 (4-core, without plug) | 405 (3-core, with plug) |
| Suction port diameter | mm | ø38 | |
| | inch | ø1.5 | |
| Dimensions W×D×H | mm | 430×895×1500 | |
| | inch | 17.0×35.3×59.1 | |
| Weight | kg | 107 | 110 |
| | lb | 236 | 243 |
| Paint color | | JPMA (Japan Paint Manufactuirng Association) S11-344 | |

※Suction brushes, rods, hoses are sold separately.



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

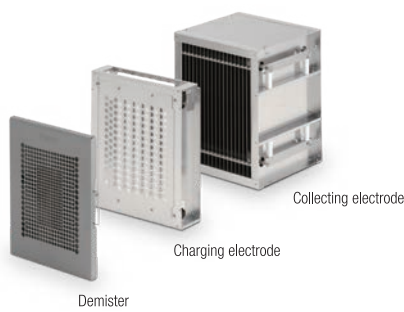


- Molded filter
- Manual shaking
- Inflammable powder/
dust that might explode
- 2.7
m³/min
- Max. airflow

EM-eII

Electrostatic precipitator mist collector

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



Demister

Specifications

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

EM-SC

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

Self-cleaning



Electrostatic precipitator mist collector

Cleaning

Electrical

Mist

30

m³/minMax. airflow

IE3

Premium efficiency motor
※Except DM-4SC

Specifications

| Model | | EM-8SC | EM-15SC | EM-30SC |
|-------------------------------------|--------------------------------------|---|----------------|----------------|
| Power supply | | 3-phase 200V 50/60Hz common use | | |
| Output | kW | 0.4 | 0.75 | 1.5 |
| | HP | 0.5 | 1 | 2 |
| Max. airflow | m³/min | 8.0 | 15.0 | 30.0 |
| | cfm | 282 | 529 | 1059 |
| Max. static pressure [Pa] | | 500 | | |
| Pre-processing | | Metal eliminator | | |
| Electric collection part | Electric charge method | (+) positive charge, 2-stage charging system | | |
| | Charging electrode type | Needle type (titanium) | | |
| | Electrode charging voltage HV [kV] | 10 | | |
| | Collecting electrode voltage LV [kV] | 8 | | |
| | Cleaning method | Cleaning by rotating electrode & stationary scraper | | |
| Objects for collection | | Oil mist, Water-soluble oil mist and Oil soluble & water soluble mist with ignition point of 80°C or more Water-soluble mist with electric conductivity of 300mS/m or less | | |
| Collecting efficiency (%) | | 99 (weight ratio per filter paper) | | |
| Maximum inlet concentration (mg/m³) | | 200 | | |
| Recommended breakers [A] | | 5 | 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 | 707×476×1081 | 872×476×1086 | 1310×476×1209 |
| | inch | 27.9×18.8×42.6 | 34.3×18.8×42.8 | 51.6×18.8×47.6 |
| Weight | kg | 84 | 107 | 140 |
| | lb | 186 | 236 | 309 |
| Paint color | | JPMA(Japan Paint Manufacturing Association) F35-85A | | |

※Suction inlet packing comes supplied with optional suction inlet.

EM-eH

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

Max. air flow
90m³/min



Electrostatic precipitator mist collector

Electrical

Mist

90

m³/minMax. airflow

IE3

Premium efficiency motor

Specifications

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


EM-SCIIIt


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


Self-Cleaning



Electrostatic precipitator mist collector

Cleaning

Electrical

Mist

30

m³/minMax. airflow

IE3

Premium efficiency motor

Specifications

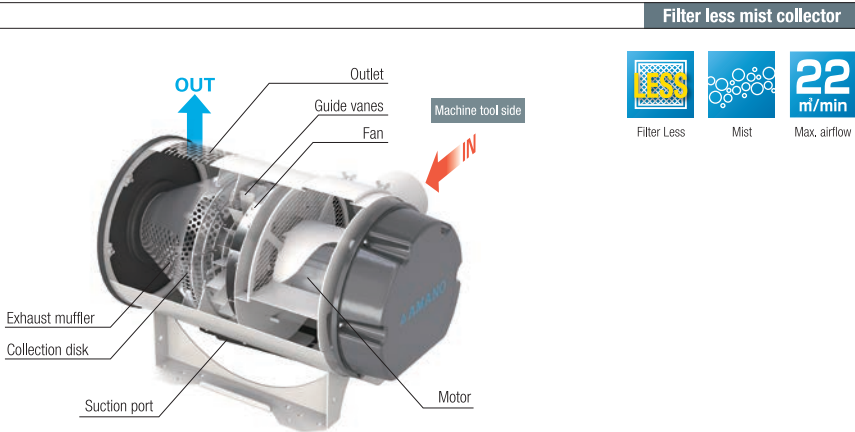
| Model | | EM-15SCIIIt | | EM-30SCIIIt | |
|---|--------------------------------------|---|-------------|----------------------|--|
| Power supply | | 3-phase 200V 50/60Hz common use | | | |
| Fan motor output | kW | 0.75 | | 1.5 | |
| | HP | 1 | | 2 | |
| Electrode cleaning motor output | W | 7.0 | | | |
| | HP | 9.5 | | | |
| Usage point airflow [m³/min] ※Figure in () is min / max value | 50Hz | 15 (Min 12.5 / Max 19) | | 30 (Min 25 / Max 34) | |
| | 60Hz | 15 (Min 12.5 / Max 22) | | 30 (Min 25 / Max 34) | |
| Usage point static pressure [Pa] ※Figure in () is max value | 50Hz | 270 (550) | | 190 (450) | |
| | 60Hz | 540 (750) | | 420 (600) | |
| Pre-processing | | Metal eliminator | | | |
| Electric charge method | | (−) negative charge, 2-stage charging system | | | |
| Electric collection part | Charging electrode type | | Needle type | | |
| | Electrode charging voltage HV [kV] | | 10 (14line) | | |
| | Collecting electrode voltage LV [kV] | | 8 (26line) | | |
| Cleaning method | | Cleaning by rotating electrode & stationary scraper | | | |
| Objects for collection | | Oil mist, Water-soluble oil mist and Oil soluble & water soluble mist with ignition point of 80°C or more Water-soluble mist with electric conductivity of 300mS/m or less | | | |
| Collecting efficiency [%] | | 99 (weight ratio per filter paper) | | | |
| Maximum inlet concentration [mg/m³] | | 200 | | | |
| Recommended breakers [A] | | 10 | | 15 | |
| Power cord | m | 3.5 (4-core, without plug) | | | |
| | inch | 137 (4-core, without plug) | | | |
| Drainage port | | 1-inch 90° elbow / Hose nipple | | | |
| Dimensions W×D×H | mm | 500×1234×620 | | 835×1334×620 | |
| | inch | 19.7×48.6×24.5 | | 32.9×52.6×24.5 | |
| Weight | kg | 83 | | 128 | |
| | lb | 183 | | 283 | |
| Paint color | | JPMA(Japan Paint Manufacturing Association) F35-85A | | | |

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

MR

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

Filter Less



Filter less mist collector

Filter Less

Mist

22
m³/min
Max. airflow



| Specifications | | | | | |
|-------------------------------------|------|---|----------------|-------------------------------------|----------------|
| 型式 | | MR-5 | MR-10 | MR-15 | MR-25 |
| Power supply | | 3-phase 200V 50/60Hz common use | | 3-phase 200~240V 50/60Hz common use | |
| Output | kW | 0.4 | 0.75 | 1.5 | 2.2 |
| | HP | 0.5 | 1 | 2 | 3 |
| Max. airflow | 50Hz | m³/min | 4.8 | 9.5 | 15.0 |
| | | cfm | 169 | 335 | 529 |
| | 60Hz | m³/min | 5.5 | 9.5 | 15.0 |
| | | cfm | 194 | 335 | 529 |
| Max. static pressure [Pa] | 50Hz | 0.8 | 1.3 | 1.3 | 1.3 |
| | 60Hz | 1.2 | | | |
| Collecting method | | Rotary collision method | | | |
| Collecting efficiency [%] | | 99.9 ※Particle size 5µm or larger | | | |
| Objects for collection | | Water soluble mist (pH7.0~10.5) ※Particle size 2µm or larger | | | |
| Maximum inlet concentration [mg/m³] | | 50 | | | |
| Recommended breakers [A] | | 5 | 20 | | |
| Power cord | | Option(4-core) | | | |
| Suction port diameter | mm | φ98 | φ123 | φ148 | φ198 |
| | inch | φ3.9 | φ4.9 | φ5.9 | φ7.9 |
| Drainage port | | Primary draing port:Dia.25mm (1Inch) / secondary drain port:Dia.10mm (0.39Inch) | | | |
| Dimensions W×D×H | mm | 440×590×460 | 460×660×466 | 512×746×507 | 567×857×569 |
| | inch | 17.3×23.2×18.1 | 18.1×25.9×18.3 | 20.1×29.3×19.9 | 21.9×33.7×22.4 |
| Weight | kg | 45 | 35 | 50 | 65 |
| | lb | 99 | 77 | 110 | 143 |
| Paint color | | JPMA(Japan Paint Manufacturing Association) F35-85A / YN-40 | | | |

MZ

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

Energy Saving



Filter type mist collector

Filter

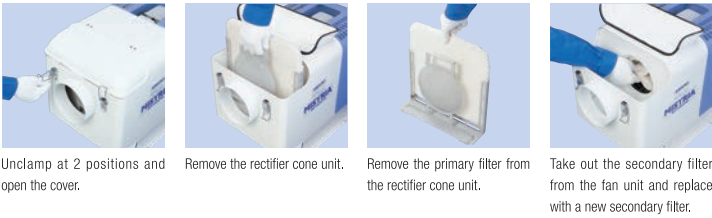
Mist

20
m³/min
Max. airflow

IE3
Premium efficiency motor
※Except MZ-10

Easy toolless maintenance!

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



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

MS

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

Max. airflow
400m³/min



Large air flow filter type mist collector

Filter

Mist

400
m³/min
Max. airflow



| Specifications | | ※ Fan motor is sold separately | | | | | | |
|-------------------------------------|-------------------------|--|----------------|-------------|-------------|-------------|--------|-------|
| Model | | MS-100 | MS-150 | MS-200 | MS-250 | MS-350 | MS-400 | |
| Applicable capacity | | m³/min | 100 | 150 | 200 | 250 | 350 | 400 |
| | | cfm | 3531 | 5297 | 7062 | 8828 | 12360 | 14125 |
| Primary filter | Dimensions W×H | 500×666 | | 800×1000 | | | | |
| | mm | 19.7×26.3 | | 31.5×39.4 | | | | |
| | inch | | | | | | | |
| | Quantity | 16 | 20 | 24 | 32 | 40 | 40 | |
| Secondary filter | Material | Sponge + particular fiber | | | | | | |
| | Dimensions W×H×D | mm | 610×610×290 | 610×760×290 | 610×610×290 | 610×760×290 | | |
| | inch | 24.1×24.1×11.5 | 24.1×30.0×11.5 | | | | | |
| | Quantity | 4 | | 6 | | 9 | | 12 |
| | | Material | | Glass wool | | | | |
| Objects for collection | | Water soluble mist/oil mist | | | | | | |
| Maximum inlet concentration [mg/m³] | | 20 | | | | | | |
| Suction port diameter | mm | φ380 | φ470 | φ550 | φ610 | φ720 | φ770 | |
| | inch | 15 | 18.6 | 21.7 | 24.1 | 28.4 | 30.4 | |
| Dimensions | mm | W | 3250 | 3635 | 4590 | 4730 | 5300 | 5390 |
| | | D | 1500 | 1870 | 1700 | 2050 | 2560 | 2600 |
| | | H | 1590 | 1590 | 2250 | 2250 | 2250 | 2700 |
| | 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 | 1200 | 1600 | 2200 | 2400 | 2900 | 3500 | |
| | lb | 2646 | 3528 | 4851 | 5292 | 6395 | 7718 | |
| Drainage port | 1-1/2 inch socket [set] | 4 | | | | | | |
| | 2 inch socket [set] | 1 | | | | | | |
| Paint color | | JPMA (Japan Paint Manufacturing Association) F35-85A | | | | | | |

MC-45

Medium airflow mist collector.

Max. airflow
42m³/min



Filter type medium airflow mist collector

Filter

Mist

42
m³/min
Max. airflow

IE3
Premium efficiency motor



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

VN-SD

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

Effect on Kst values of 400



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



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



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



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

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

Specifications

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

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

SA

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

Specifically designed for Magnesium



Top-level capture efficiency

High capture efficiency has been achieved through a two-stage S-shape impeller dust collection mechanism.
This system can be installed in machines such as shot blasting machines that generate high concentrations of dust.
Additionally, since it has a filterless structure, there is no need to dispose of used filters.



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

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

Specifications

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

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

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

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

PIE-60DN

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 300



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.



Molded anti-electrostatic filter
Pulse jet
Inflammable powder/dust that might explode
Max. airflow
Premium efficiency motor
※Except PIE-30SDN/45SDN

| Model | Kst value (x10 ³ kPa·m/s or less) | Pmax(x10 ³ kPa or less) |
|----------|--|------------------------------------|
| PIE-60DN | 300 | 11.0 |

Effective area was calculated based on "Explosive pressure discharge device technical guidelines(Revised version)NIS-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-60DN | | |
|------------------------------------|--|---|------|
| Power supply | Frequency 50Hz or 60Hz at 3-phase 200V | | |
| Output | kW | 3.7 | |
| | HP | 5 | |
| Airflow | m ³ /min | 0 | 35 |
| | cfm | 0 | 1236 |
| Static pressure [kPa] | m ² | 2.73 | 2.03 |
| | ft ² | | 0.92 |
| Filter | Area | 18.0 | |
| | Quantity | 193.6 | |
| | Shape | 8 | |
| | Dust removal | Molded cartridge (Anti-electrostatic filter with grounding conductor) Automatic pulse jet (By differential pressure detection) | |
| Compressed air consumption [L/min] | | 33 | |
| Diaphragm valve [pcs.] | | 4 | |
| Recommended breakers [A] | | 30 | |
| Power cord | m | 5 (4-core, without plug) | |
| | inch | 196 (4-core, without plug) | |
| Suction port diameter | mm | φ250 | |
| | inch | φ10 | |
| Dimensions W×D×H | mm | 1160×1244×2144 | |
| | inch | 45.7×49.0×84.5 | |
| Bucket capacity | L | 25×2 | |
| | U.S.gallon | 6.6×2 | |
| Weight | kg | 550 | |
| | lb | 1213 | |
| Paint color | | JPMA (Japan Paint Manufacturing Association) S11-344 | |

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

PIF-D/SD

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

Pulse jet type (By differential pressure detection)

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



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



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



Molded anti-electrostatic filter
Pulse jet
Inflammable powder/dust that might explode
Max. airflow
Premium efficiency motor
※Except PIF-30D/45SD

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

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

Specifications


| Model | | | PIF-30D | | PIF-45D | | PIF-60D | | PIF-75D | | PIF-120D | | PIF-150D | | PIF-30SD | | PIF-45SD | | | | | |
|--|------------|-----|---|------|----------------|------|----------------|------|----------------|------|----------------|------|-----------------|------|----------------|------|----------------|------|---|------|--|--|
| Power supply | | | 3-phase 200V 50/60Hz common use | | | | | | | | | | | | | | | | Frequency 50Hz or 60Hz at 3-phase 200V | | | |
| Motor | Output | kW | 1.35 | | 2.0 | | 3.1 | | 5.5 | | 7.5 | | 11.0 | | 1.5 | | 2.2 | | | | | |
| | | HP | 1.8 | | 2.6 | | 4.1 | | 7.3 | | 10.0 | | 15.0 | | 2.0 | | 3.0 | | | | | |
| Inverter Efficiency | | | Standard equipment | | | | | | | | | | | | | | | | — | | | |
| Airflow | Efficiency | | IE3 | | | | | | | | | | | | | | | | IE1 (Dust explosion-proof motor) | | | |
| | m³/min | | 0 | 15 | 30 | 0 | 22.5 | 45 | 0 | 35 | 60 | 0 | 50 | 75 | 0 | 65 | 105 | 0 | 100 | 150 | | |
| Static pressure | cfm | | 0 | 529 | 1059 | 0 | 794 | 1589 | 0 | 1236 | 2118 | 0 | 1765 | 2648 | 0 | 2295 | 3708 | 0 | 3531 | 5297 | | |
| | [kPa] | | 2.75 | 2.00 | 0.80 | 2.75 | 2.20 | 0.40 | 3.00 | 2.20 | 0.50 | 3.10 | 2.50 | 0.90 | 3.20 | 2.41 | 0.59 | 3.10 | 2.27 | 0.72 | | |
| Filter | Area | m² | 12.0 | | 18.0 | | 24.0 | | 38.4 | | 57.6 | | 86.4 | | 12.0 | | 18.0 | | 27.5 | | | |
| | | ft² | 129.1 | | 193.6 | | 258.2 | | 413.4 | | 620.0 | | 930.0 | | 129.1 | | 193.6 | | 275.1 | | | |
| Dust removal | Quantity | | 4 | | 6 | | 8 | | 8 | | 12 | | 18 | | 4 | | 6 | | 6 | | | |
| | Shape | | Molded cartridge (length:500mm) (Anti-electrostatic filter) | | | | | | | | | | | | | | | | Molded cartridge (length:500mm) (Anti-electrostatic filter) | | | |
| Automatic pulse jet (by differential pressure detection) | | | | | | | | | | | | | | | | | | | | | | |
| Compressed air consumption [L/min] | | | 36 | | 45 | | 67 | | 75 | | 86 | | 100 | | 36 | | 45 | | | | | |
| Diaphragm valve [pcs.] | | | 2 | | 3 | | 4 | | 6 | | 6 | | 2 | | 2 | | 3 | | | | | |
| Recommended breakers [A] | | | 15 | | 20 | | 30 | | 50 | | 60 | | 75 | | 15 | | 20 | | | | | |
| Power cord | m | | 5 (4-core, without plug) | | | | | | | | | | | | | | | | 5 (4-core, without plug) | | | |
| | inch | | 196 (4-core, without plug) | | | | | | | | | | | | | | | | 196 (4-core, without plug) | | | |
| Bucket capacity | L | | 27 | | 38 | | 27×2 | | 22.5×2 | | 22.5×3 | | 22.5×3 | | 27 | | 38 | | | | | |
| | U.S.gallon | | 7.1 | | 10.0 | | 7.1×2 | | 5.9×2 | | 5.9×3 | | 5.9×3 | | 7.1 | | 10.0 | | | | | |
| Suction port diameter | mm | | φ150 | | φ200 | | φ250 | | φ290 | | φ380 | | φ150 | | φ200 | | φ200 | | | | | |
| | inch | | φ6 | | φ8 | | φ10 | | φ11.5 | | φ15 | | φ6 | | φ8 | | φ8 | | | | | |
| Dimensions W×D×H | mm | | 607×1243×1569 | | 786×1228×1600 | | 950×1209×1774 | | 950×1540×2291 | | 1398×1666×2393 | | 1484×2009×3054 | | 556×1245×2247 | | 681×1237×2392 | | | | | |
| | inch | | 23.9×48.9×61.7 | | 30.9×48.3×62.9 | | 39.0×47.5×69.8 | | 37.4×60.6×90.2 | | 94.5×65.6×94.2 | | 58.4×79.0×120.2 | | 21.8×49.0×88.4 | | 26.8×48.7×94.1 | | | | | |
| Weight | kg | | 290 | | 340 | | 465 | | 520 | | 710 | | 1020 | | 375 | | 435 | | | | | |
| | lb | | 640 | | 750 | | 1026 | | 1147 | | 1566 | | 2249 | | 827 | | 959 | | | | | |
| Paint color | | | JPMA (Japan Paint Manufacturing Association) S11-344 | | | | | | | | | | | | | | | | | | | |

- The dimensions mentioned above are only for the main unit. A check valve, an electrical box, the roof of outdoor specifications are not included.
- A dust explosion-proof motor (motor having structure to prevent the invasion of the outside substance) is installed on PIF-30SD and PIF-45SD.
- Notes 3 and 4 in above PIE-SDN are not applicable when changing PIF-SD motor.

SNP

Space saving dust collector from the use of plate filter.

Moderate pressure large blow force



SNP-5H2W




Plate filter







Plate filter



Pulse jet



General dry dust



450 m²

Paint color JPMA (Japan Paint Manufacturing Association) 634

See page 27 of specification table

SI

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

Moderate pressure large blow force



SI-1004



Woven filter



Woven filter



Pulse jet



General dry dust



100 m²


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

See page 30 of specification table


WRT/WRT-ST

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


Moderate pressure large blow force




WRT-10320




WRT-5154ST




Woven filter




Molded cartridge filter




(WRT) Woven filter




Pulse jet




General dry dust




1055 m²




(WRT-ST) Molded filter



Pulse jet



General dry dust



816 m²


Paint color JPMA (Japan Paint Manufacturing Association) 634

See page 27-29 of specification table


BV

Ideal for air bleeding from silos and hoppers.


Moderate pressure medium blow force




BV-1009




Woven filter




Woven filter



Pulse jet



General dry dust



35 m²


Paint color JPMA (Japan Paint Manufacturing Association) 634

See page 30 of specification table


CT

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


High pressure medium blow force




CT-1008




Woven filter




Woven filter



Pulse jet



General dry dust



90 m²

Paint color JPMA (Japan Paint Manufacturing Association) 634


See page 30 of specification table

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


PPC

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


Moderate pressure medium blow force




PPC-3066




Molded cartridge filter




Molded filter



Pulse jet



General dry dust



75 m²


Paint color JPMA (Japan Paint Manufacturing Association) 634

See page 31 of specification table


MF

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


High pressure medium blow force




MF-2004




Molded cartridge filter




Molded filter



Pulse jet



General dry dust



18 m²

Paint color JPMA (Japan Paint Manufacturing Association) 634

See page 32 of specification table

TFP

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

Bag-in Bag-out



TFP-0403



Molded cartridge filter



Molded filter



Pulse jet



General dry dust



81 m²

Paint color JPMA (Japan Paint Manufacturing Association) 634

See page 32 of specification table

TFP-S

High-pharmacologically-active dust collector.

Effective on high-pharmacologically-active powder

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



TFP-S0201



Molded cartridge filter



Molded filter



Pulse jet



High chemically active powder



33 m²

See page 32 of specification table

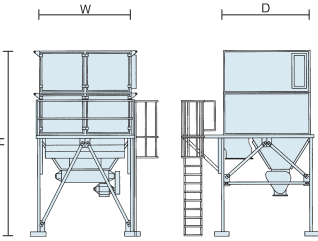
HGD

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

Compatible with dioxins

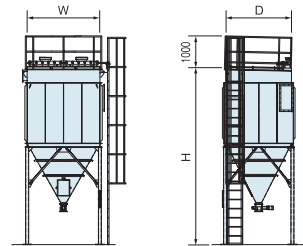


We design to match customer needs.



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

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

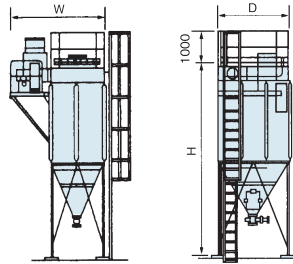


SNP

■ SNP

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

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



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

| Model | Dimensions | | | | | | Airflow | | Static pressure [kPa] | Output | | Filter | | | | No. of valves | Air supplied quantity [L/min] | Weight | | | | | | | | | |
|------------|------------|------|------|------|------|-------|---------|-------|-----------------------|--------|-------|--------|------|----------|--------|---------------|-------------------------------|--------|------|------|------|------|-------|------|------|-------|-------|
| | mm | | | inch | | | | | | | | Area | | Quantity | Length | | | | | | | | | | | | |
| | W | D | H | W | D | H | m³/min | cfm | | kW | HP | m² | ft² | | mm | | | inch | kg | lb | | | | | | | |
| WRT-3054TF | 1200 | 2160 | 5580 | 47.2 | 85.1 | 219.7 | 50 | 1765 | 3.43 | 5.5 | 7.3 | 51.5 | 554 | 54 | 1933 | 76 | 6 | 150 | 2400 | 5292 | | | | | | | |
| | | | | | | | 75 | 2648 | | 7.5 | 10 | | | | | | | | | | | | | | | | |
| | | | | | | | 95 | 3354 | | 11 | 15 | | | | | | | | | | | | | | | | |
| | | | | | | | 110 | 3884 | | 15 | 20 | | | | | | | | | | | | | | | | |
| | | | | | | | 125 | 4414 | | 15 | 20 | | | | | | | | | | | | | | | | |
| -5054TF | 1200 | 2160 | 6150 | 47.2 | 85.1 | 242.1 | 75 | 2648 | | 7.5 | 10 | 67.6 | 727 | 54 | 2540 | 100 | 6 | 150 | 2600 | 5733 | | | | | | | |
| | | | | | | | 95 | 3354 | | 11 | 15 | | | | | | | | | | | | | | | | |
| | | | | | | | 110 | 3884 | | 15 | 20 | | | | | | | | | | | | | | | | |
| | | | | | | | 145 | 5120 | | 15 | 20 | | | | | | | | | | | | | | | | |
| -5072TF | 1600 | | 2160 | 6150 | | 63.0 | 85.1 | 242.1 | | 95 | 3354 | 11 | 15 | 90.1 | 969 | 72 | 2540 | 100 | 8 | 200 | 2900 | 6395 | | | | | |
| | 3065 | | | | | | | | 6006 | 120.7 | 236.4 | 125 | 4414 | | | | | | | | | | 15 | 20 | | | |
| | 2000 | | | | | | | | | | | 6150 | 78.7 | | | | | | | | | | 242.1 | 145 | 5120 | 18.5 | 25 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3465 | 6005 | 136.5 | 236.5 |
| 145 | | | 5120 | 15 | | 20 | | | | | | | | | | | | | | | | | | | | | |
| 180 | | | 6356 | 15 | | 20 | | | | | | | | | | | | | | | | | | | | | |
| 200 | 7062 | 18.5 | 25 | | | | | | | | | | | | | | | | | | | | | | | | |

B: Bottom inlet T: Top inlet

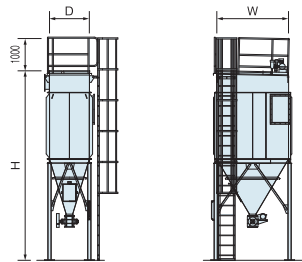
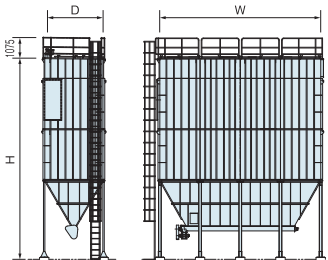
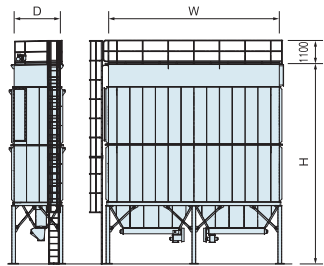
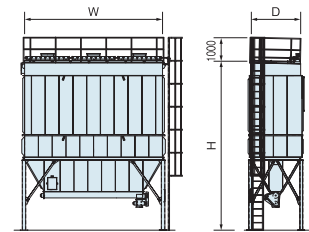
WRT

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

| Model | Dimensions | | | | | | Filter | | | No. of valves | Air supplied quantity [L/min] | Weight | | | |
|-----------|------------|------|------|-------|------|-------|--------|------|----------|---------------|-------------------------------|--------|------|------|-------|
| | mm | | | inch | | | Area | | Quantity | | | Length | | kg | lb |
| | W | D | H | W | D | H | m² | ft² | | | | mm | inch | | |
| WRT-3054B | 1200 | 1810 | 5330 | 47.3 | 71.3 | 209.8 | 51.5 | 554 | 54 | 1933 | 76 | 6 | 150 | 1700 | 3749 |
| -3054T | 1200 | 2160 | 5580 | 47.3 | 85.1 | 219.7 | 51.5 | 554 | 54 | | | 6 | 150 | 1900 | 4190 |
| -5054B | 1200 | 1810 | 5900 | 47.3 | 71.3 | 232.3 | 67.6 | 727 | 54 | 2540 | 100 | 6 | 150 | 1900 | 4190 |
| -5072B | 1600 | | | 63.0 | | | 90.1 | 969 | 72 | | | 8 | 200 | 2200 | 4851 |
| -5090B | 2000 | | | 78.8 | | | 112.7 | 1212 | 90 | | | 10 | 240 | 2500 | 5513 |
| -5108B | 2400 | | | 94.5 | | | 135.2 | 1454 | 108 | | | 12 | 290 | 2700 | 5954 |
| -5054T | 1200 | 2160 | 6150 | 47.3 | 85.1 | 242.1 | 67.6 | 727 | 54 | | | 6 | 150 | 2000 | 4410 |
| -5072T | 1600 | | | 63.0 | | | 90.1 | 969 | 72 | | | 8 | 200 | 2300 | 5072 |
| -5090T | 2000 | | | 78.8 | | | 112.7 | 1212 | 90 | | | 10 | 240 | 2600 | 5733 |
| -5108T | 2400 | | | 94.5 | | | 135.2 | 1454 | 108 | | | 12 | 290 | 3100 | 6836 |
| -5126B | 2800 | 1810 | 5975 | 110.3 | 71.3 | 235.2 | 157.8 | 1697 | 126 | 2540 | 100 | 14 | 340 | 3200 | 7056 |
| -5144B | 3200 | | | 126.0 | | | 180.3 | 1940 | 144 | | | 16 | 390 | 3500 | 7718 |
| -5126T | 2800 | 2160 | 6275 | 110.3 | 85.1 | 247.1 | 157.8 | 1697 | 126 | | | 14 | 340 | | |
| -5144T | 3200 | | | 126.0 | | | 180.3 | 1940 | 144 | | | 16 | 390 | 3900 | 8510 |
| -5162T | 3600 | | | 141.8 | | | 202.8 | 2182 | 162 | | | 18 | 440 | 4200 | 9261 |
| -5180T | 4000 | | | 157.5 | | | 225.4 | 2425 | 180 | | | 20 | 480 | 4700 | 10364 |
| -5198T | 4400 | | | 173.3 | | | 247.9 | 2667 | 198 | | | 22 | 530 | 5000 | 11025 |

B: Bottom inlet T: Top inlet

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



WRT-7000 Series (with a separate fan)

| Model | Dimensions | | | | | | Filter | | | | | | | | No. of valves | Air supplied quantity [L/min] | Weight | |
|----------|------------|------|-------|-------|-------|-------|--------|-------|----------|-------|--------|-------|-----|-------|---------------|-------------------------------|--------|-------|
| | mm | | | inch | | | Area | | Quantity | | Length | | | | | | kg | lb |
| | W | D | H | W | D | H | m² | ft² | Long | Short | mm | Short | mm | Short | | | | |
| WRT-7080 | 2000 | 2160 | 7255 | 78.8 | 85.1 | 285.6 | 132.7 | 1427 | 72 | 8 | 3500 | 2133 | 138 | 84 | 10 | 330 | 3300 | 7275 |
| -7096 | 2400 | | 7545 | 94.5 | | 297.0 | 160.3 | 1724 | 88 | | | | | | 12 | 400 | 3800 | 8378 |
| -7112 | 2800 | | 7795 | 110.3 | | 306.9 | 182.5 | 1963 | 96 | | | | | | 14 | 460 | 4300 | 9480 |
| -7128 | 3200 | | 8055 | 126.0 | | 317.1 | 210.1 | 2260 | 112 | | | | | | 16 | 530 | 4900 | 10803 |
| -7144 | 3600 | | 7380 | 141.8 | | 290.6 | 237.8 | 255.8 | 128 | 18 | | | | | 590 | 5300 | 11685 | |
| -7160 | 4000 | | | 157.5 | | | 265.4 | 285.5 | 144 | 20 | | | | | 660 | 5800 | 12787 | |
| -7176 | 4400 | | | 173.3 | | | 287.6 | 309.4 | 152 | 22 | | | | | 720 | 6200 | 13669 | |
| -7192 | 4800 | | | 189.0 | 315.2 | | 339.1 | 168 | 24 | 790 | | | | | 6600 | 14551 | | |
| -7208 | 5200 | | | 204.8 | 342.8 | | 368.8 | 184 | 26 | 860 | | | | | 7100 | 15653 | | |
| -7224 | 5600 | | | 220.5 | 365.1 | | 392.8 | 192 | 28 | 920 | | | | | 7500 | 16535 | | |
| -7240 | 6000 | | 236.3 | 392.7 | 422.5 | 208 | 32 | 990 | 8000 | 17637 | | | | | | | | |

WRT-S10000 Series (with a separate fan)

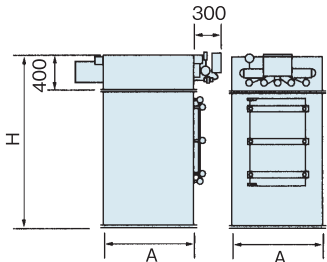
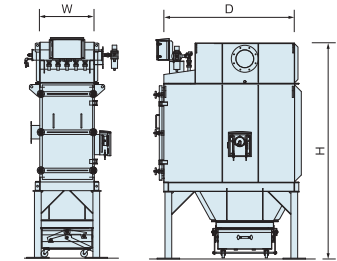
| Model | Dimensions | | | | | | Filter | | | | | | | | No. of valves | Air supplied quantity [L/min] | Weight | |
|------------|------------|------|------|-------|-------|-------|----------------|-----------------|----------|-------|--------|-------|------|-------|---------------|-------------------------------|--------|-------|
| | mm | | | inch | | | Area | | Quantity | | Length | | | | | | | |
| | W | D | H | W | D | H | m ² | ft ² | Long | Short | Long | Short | Long | Short | | | | |
| WRT-S10112 | 2800 | 2160 | 8900 | 110.3 | 85.1 | 350.4 | 270.6 | 2912.7 | 104 | 8 | 5080 | 2540 | 200 | 100 | 14 | 460 | 6600 | 14551 |
| -S10128 | 3200 | | | 126.0 | | | 310.7 | 3344.3 | 120 | | | | | | 16 | 530 | 7200 | 15874 |
| -S10160 | 4000 | | | 157.5 | | | 390.9 | 4207.6 | 152 | | | | | | 20 | 660 | 8500 | 18740 |
| -S10192 | 4800 | | | 189.0 | | | 461.1 | 4963.2 | 176 | | | | | | 24 | 780 | 10000 | 22047 |
| -S10224 | 5600 | | 9100 | 220.5 | 358.3 | 541.2 | 5825.4 | 208 | 16 | 28 | | | | | 920 | 11400 | 25133 | |
| -S10256 | 6400 | | | 252.0 | | 621.5 | 6689.8 | 240 | | 32 | | | | | 1050 | 13100 | 28881 | |
| -S10288 | 7200 | | | 283.5 | | 691.6 | 7444.3 | 264 | | 36 | | | | | 1170 | 14400 | 31747 | |
| -S10320 | 8000 | | | 315.0 | | 771.8 | 8307.6 | 296 | | 40 | | | | | 1300 | 15900 | 35054 | |

WRT-19000 Series (with a separate fan)

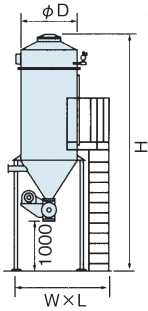
| Model | Dimensions | | | | | | Filter | | | | No. of valves | Air supplied quantity [L/min] | Weight | | |
|-----------|------------|------|-------|-------|-------|-------|----------------|-----------------|----------|--------|---------------|-------------------------------|--------|-------|-------|
| | mm | | | inch | | | Area | | Quantity | Length | | | kg | lb | |
| | W | D | H | W | D | H | m ² | ft ² | | mm | | | | | inch |
| WRT-19320 | 7000 | 3100 | 10655 | 275.6 | 122.1 | 419.5 | 844.4 | 9085 | 320 | 5350 | 210 | 32 | 1360 | 20800 | 45864 |
| -19360 | 7800 | | | 307.1 | | | 950.0 | 10222 | 360 | | | 36 | 1520 | 22800 | 50274 |
| -19400 | 8600 | | | 338.6 | | | 1055.6 | 11358 | 400 | | | 40 | 1690 | 25400 | 56007 |

WRT-ST

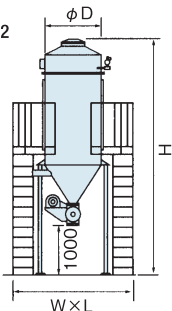
| Model | Dimensions | | | | | | Filter | | | | | | No. of valves | Air supplied quantity [L/min] | Weight | |
|------------|------------|------|------|-------|-------|------|----------------|-----------------|----------|--------|------|-------|---------------|-------------------------------|--------|-------|
| | mm | | | inch | | | Area | | Quantity | Length | | kg | | | lb | |
| | W | D | H | W | D | H | m ² | ft ² | | mm | inch | | | | | |
| WRT-3042ST | 1200 | 2160 | 5705 | 47.3 | 224.6 | 85.1 | 155.4 | 1672 | 42 | 1455 | 57 | 6 | 210 | 1900 | 4190 | |
| -3056ST | 1600 | | | 63.0 | | | 207.2 | 2229 | 56 | | | 8 | 280 | 2200 | 4851 | |
| -3070ST | 2000 | | | 78.8 | | | 259.0 | 2786 | 70 | | | 10 | 330 | 2500 | 5513 | |
| -3084ST | 2400 | | 5995 | 94.5 | | | 236.0 | 310.8 | 3344 | | | 84 | 12 | 390 | 2900 | 6395 |
| -5042ST | 1200 | | 6500 | 47.3 | 255.9 | 85.1 | 222.6 | 2395 | 42 | 2055 | 81 | 6 | 220 | 2100 | 4631 | |
| -5056ST | 1600 | | | 63.0 | | | 296.8 | 3193 | 56 | | | 8 | 290 | 2400 | 5292 | |
| -5070ST | 2000 | | | 78.8 | | | 371.0 | 3991 | 70 | | | 10 | 340 | 2800 | 6174 | |
| -5084ST | 2400 | | 6790 | 94.5 | | | 267.3 | 445.2 | 4790 | | | 84 | 12 | 410 | 3200 | 7056 |
| -5098ST | 2800 | | 6625 | 110.3 | 260.8 | 85.1 | 519.4 | 5588 | 98 | 2055 | 81 | 14 | 480 | 3700 | 8159 | |
| -5112ST | 3200 | | | 126.0 | | | 593.6 | 6387 | 112 | | | 16 | 550 | 4000 | 8820 | |
| -5126ST | 3600 | | | 141.8 | | | 667.8 | 7185 | 126 | | | 18 | 620 | 4400 | 9702 | |
| -5140ST | 4000 | | 6825 | 157.5 | | | 268.7 | 742.0 | 7983 | | | 140 | 20 | 670 | 4800 | 10584 |
| -5154ST | 4400 | | | 173.3 | 816.2 | 8782 | | 154 | 22 | 730 | 5000 | 11025 | | | | |



Shape 1



Shape 2



SI

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

BV

| Model | Dimensions | | | | Filter | | | | No. of valves | Air supplied quantity [L/min] | Weight | | |
|---------|------------|------|------|------|--------|-----|----------|--------|---------------|-------------------------------|--------|-----|------|
| | mm | | inch | | Area | | Quantity | Length | | | | | |
| | A | H | A | H | m² | ft² | | mm | | | inch | kg | lb |
| BV-1009 | 600 | 1620 | 23.7 | 63.8 | 4.1 | 44 | 9 | 914 | 36 | 3 | 70 | 215 | 475 |
| -1016 | 800 | | 31.5 | | 7.2 | 77 | 16 | | | 4 | 90 | 275 | 607 |
| -1025 | 1000 | | 39.4 | | 11.3 | 121 | 25 | | | 5 | 110 | 370 | 816 |
| -1036 | 1200 | | 47.3 | | 16.2 | 174 | 36 | 914 | 36 | 6 | 130 | 590 | 1301 |
| -1049 | 1400 | | 55.2 | | 22.1 | 237 | 49 | | | 7 | 160 | 685 | 1511 |
| -2009 | 600 | 2180 | 23.7 | 85.8 | 6.5 | 69 | 9 | 1472 | 58 | 3 | 75 | 230 | 508 |
| -2016 | 800 | | 31.5 | | 11.6 | 124 | 16 | | | 4 | 95 | 330 | 728 |
| -2025 | 1000 | | 39.4 | | 18.2 | 195 | 25 | | | 5 | 110 | 470 | 1037 |
| -2036 | 1200 | | 47.3 | | 26.1 | 280 | 36 | | | 6 | 140 | 750 | 1654 |
| -2049 | 1400 | | 55.2 | | 35.6 | 383 | 49 | | | 7 | 170 | 900 | 1985 |

HSF

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

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



Continuous dense phase high pressure conveyance

- Minimal crushing
- High quality material conveyance
- Compact



■ Specifications

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

High pressure conveyance

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

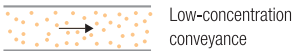


■ Specifications

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

Low pressure conveyance

- Low cost
- Multiple conveyance

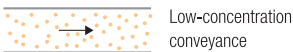


■ Specifications

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

Low-pressure intake conveyance

- Low cost
- Cluster conveyance



■ Specifications

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

Dust particle handling plant

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.



LAF

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

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



VAF

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

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



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.



EV/FV

Installable at a reasonable cost.
Compact pneumatic conveying feeder.



Suction type general-purpose dust conveying feeder

■ Specifications

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

FPV

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

Vacuum conveying system

Suction type general-purpose dust conveying feeder

Water-washable & modular design.



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

■ Specifications

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

Filter for Compact Dust Collectors

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

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



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



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



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



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



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



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



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



| | | | | |
|-----------------------------|---|--------------------------------|--------------|-------------------|
| Name | Anti-electrostatic filter | | | |
| Material | Polyester | | | |
| Surface treatment | Metal wire net weaving | | | |
| Corresponding models | 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 | Standard filter (Polyester Spunbond) | | | |
| Material | Polyester | | | |
| Surface treatment | — | | | |
| Corresponding models | 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 | | | |
| Surface treatment | Fluororesin porous thin film laminate processing | | | |
| Corresponding models | FCN · Mi · PiH | | | |
| Application | Dried fine particles (particle diameter 10μm or less) | | | |
| Features | For dust having a particle diameter of about 10μm or less. | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Dust removal | Noncombustibility |
| | ◎ | normal temperature 40°C (104°) | Pulse jet | × |



| | | | | |
|-----------------------------|--|--------------------------------|--------------|-------------------|
| Name | Anti-electrostatic filter | | | |
| Material | Polyester | | | |
| Surface treatment | Stainless evaporation | | | |
| Corresponding models | PiE-SDN/DN | | | |
| 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 | × |



Filter for Systematic Pulsejet Dust Collectors

We select and design filter for dust collectors to match the customer's application. The listed product names and commercial names are each trademarks or registered trademarks of their companies.

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



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



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



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



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



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



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



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

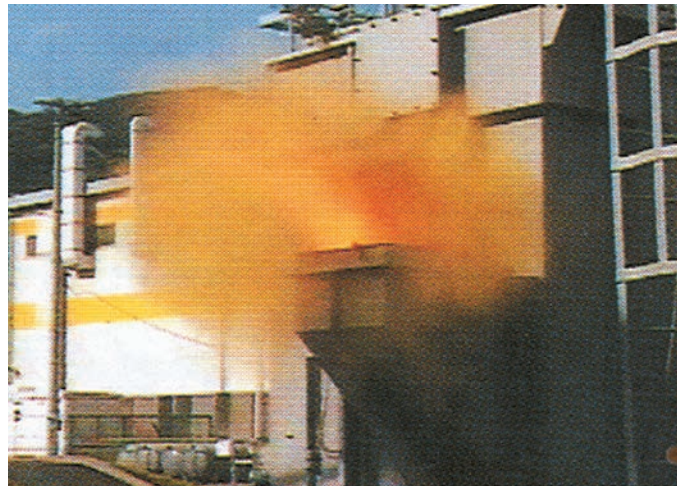


| | | | | | |
|-----------------------------|---|---------------------------------|----------------|--------------|-------------------|
| Name | Heat-resistant nylon felt | | | | |
| Material | Aramid | | | | |
| Surface treatment | Singed | | | | |
| Corresponding models | WRT · BV · CT · HGD | | |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



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

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



Three conditions leading to dust explosions

Oxygen

Dust in concentration higher than the explosion lower limit threshold

Minimum ignition energy

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

Dust and powders that might cause explosions

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

Other inflammable powders

Consult Amano for dust explosion countermeasures



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

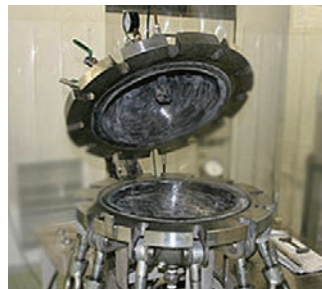
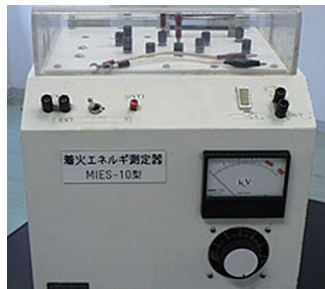
Explosion index Kst value

Maximum explosion pressure Pmax

Minimum ignition energy MIE

Test analysis ※To propose the best dust collector equipment.

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



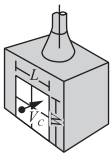
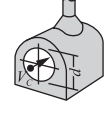
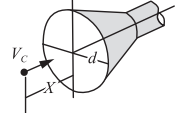
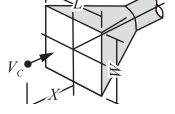
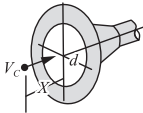
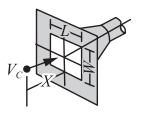
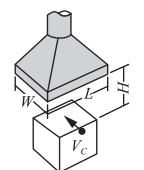
Guide to selecting hood types & required air blow quantity

Capture velocity determined by dust ordinances

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

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

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

| Hood models | Sample drawing | Airflow (m³/min) |
|---|--|--|
| ① Enclosure type |  <p>Opening surface area : $A(m^2)=L(m) \times W(m)$</p>  <p>$A=\frac{\pi}{4} \cdot d^2$</p> | $Q = 60 \cdot A \cdot V_o$ $= 60 \cdot A \cdot V_c \cdot k$ <p>V_o : Average wind velocity at open side[m/s] V_c : Capture velocity[m/s] k : Correction coefficient for irregular wind velocity</p> |
| 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> | $Q = 60 \cdot V_c \cdot (10X^2 + A) \cdot k$ <p>k : Correction coefficient for disturbance flow</p> |
| 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> | $Q = 60 \cdot 0.75 \cdot V_c \cdot (10X^2 + A) \cdot k$ <p>k : Correction coefficient for disturbance flow</p> |
| 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> | $Q = 60 \cdot 1.4 \cdot P \cdot H \cdot V_c \cdot k$ <p>k : Correction coefficient for disturbance flow</p> |

Correction coefficient

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

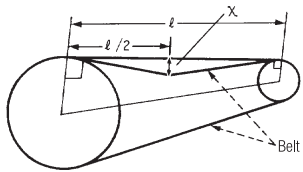
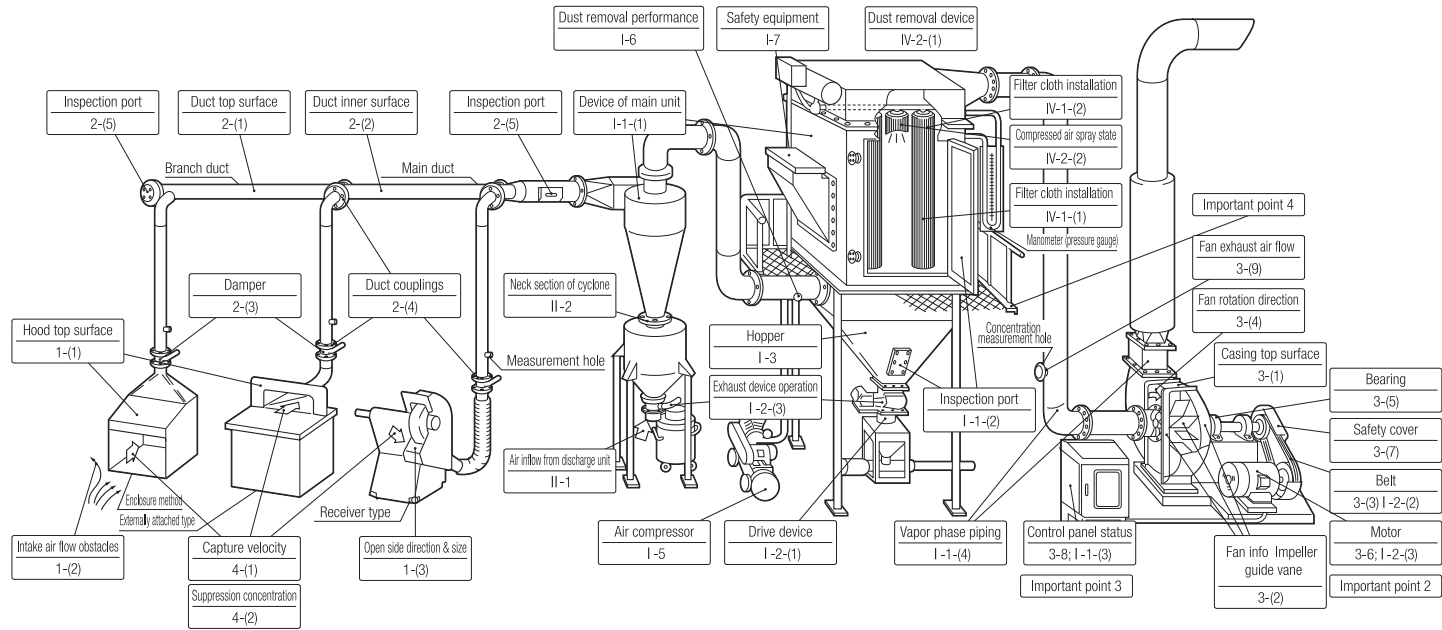
※Correction coefficient k is a given value depending on the situation.

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

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

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

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



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



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

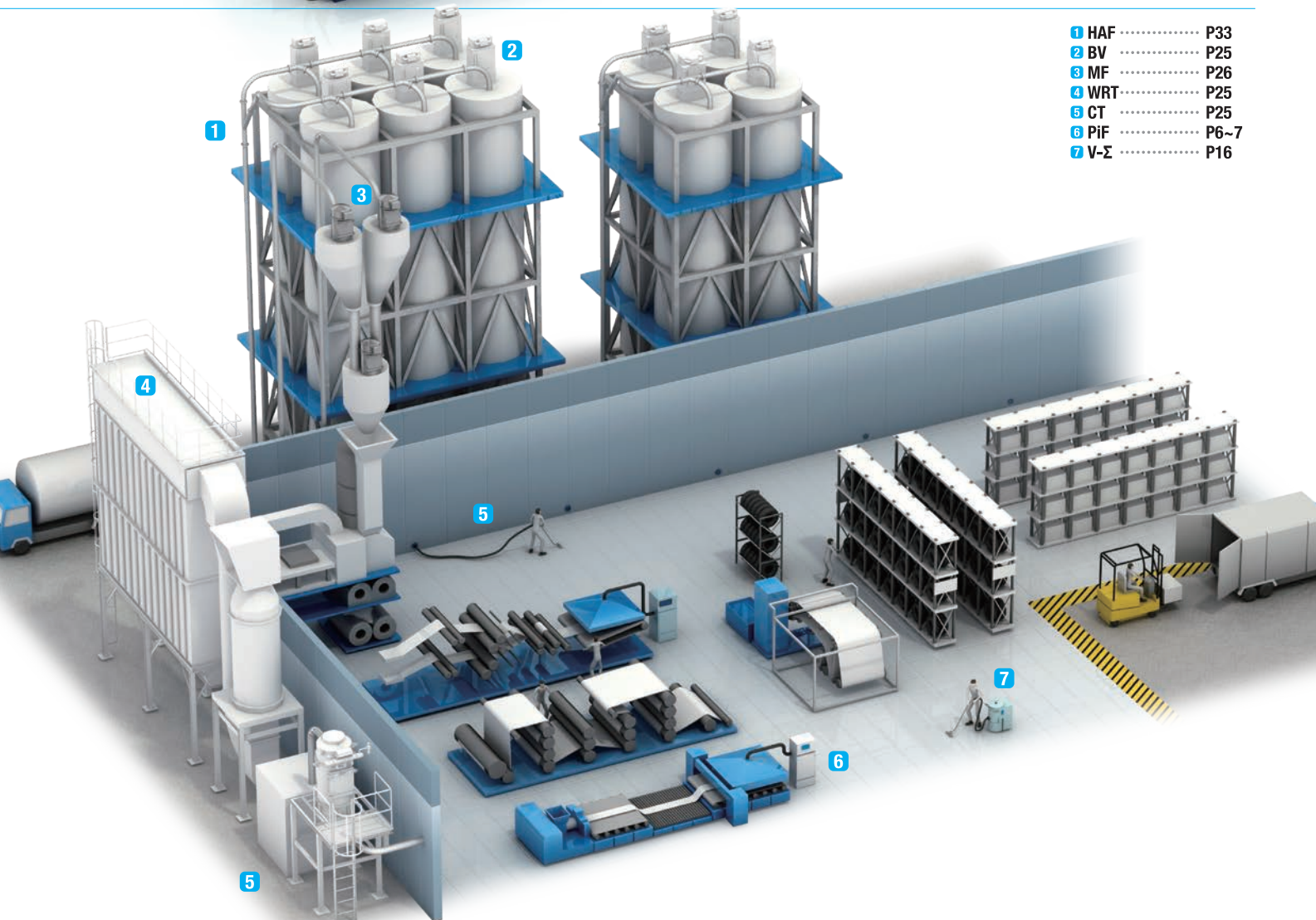
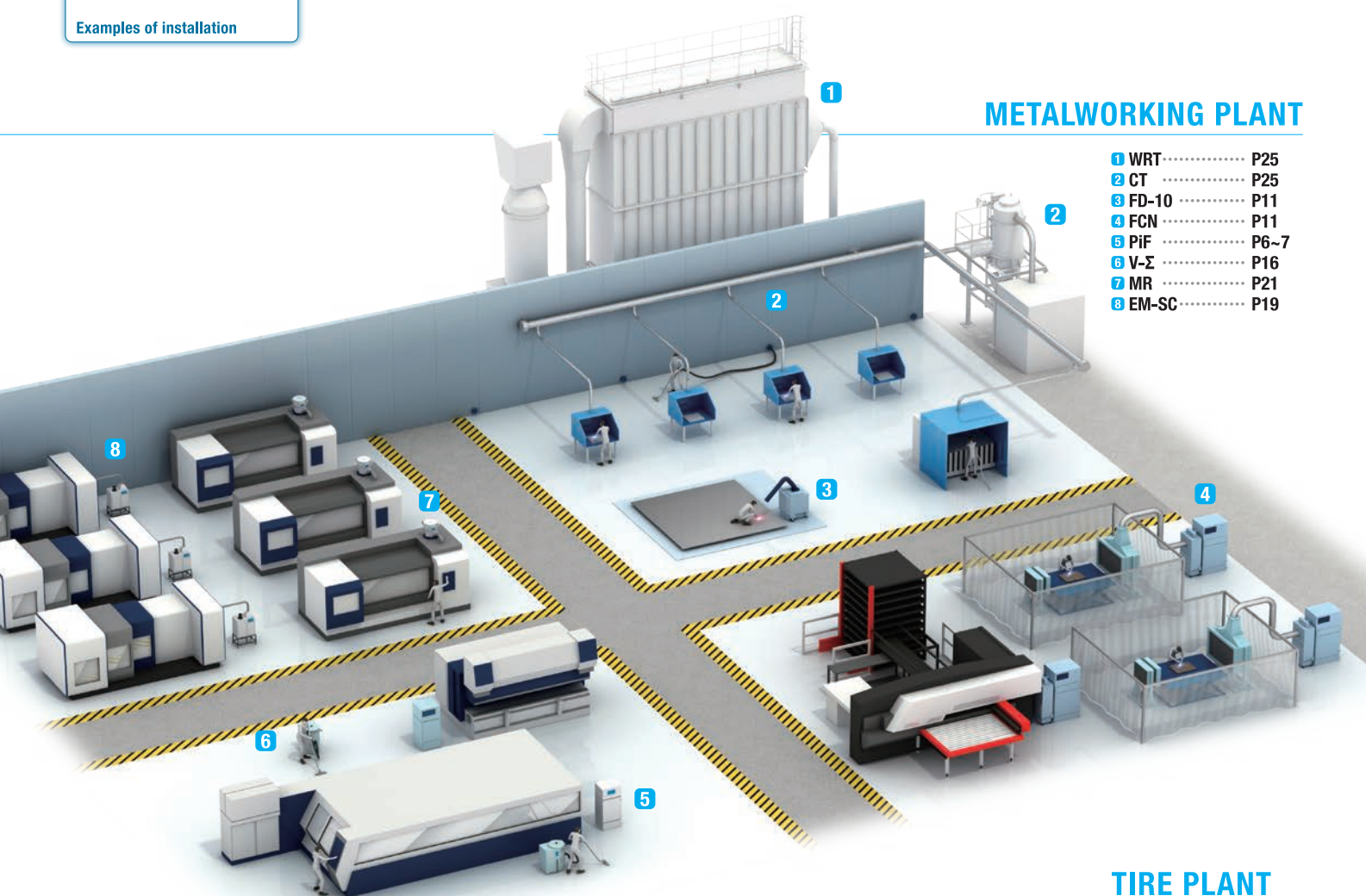
| Item | | Inspection item | Inspection method and tools | Judgement criteria |
|-------------------------------------|-------------------|--|---|---|
| Hood and intake-exhaust performance | 1- (1) | Check for any wear, corrosion or deformation | Visual, touch | Shall have no abnormalities that lower intake air capacity. |
| | 1- (2) | Intake status (any impediments) | Visual, smoke tester | Shall completely suction in the air stream. |
| | 1- (3) | Receiver type opening side direction & size | Visual | Shall be no dispersal to outside the hood. |
| | 4- (1) | Capture velocity (at designated position) | Wind gauge | Shall be specified value or higher. |
| | 4- (2) | 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 | Shall be no air leaks, and no increased resistance |
| | 2- (2) | Check for any breakage and dust accumulation on inner surfaces | Ultrasonic thickness gauge, manometer, stethoscope to check for surface impacts | Shall be no abnormalities due to wear, corrosion, or depositions. ● Shall be no drastic difference versus design plate thickness ● Shall be no drastic difference in design value for static pressure of duct |
| Damper | 2- (3) | Adjustment & clamped state of air flow adjuster valve opening Cutoff operation of selector valve, etc. | Visual, smoke tester | Shall be in a state capable of maintaining performance Shall operate correctly with light force. |
| Coupling section | 2- (4) | Check for any breakage, missing items, loosenes in coupling section | Visual, auditory, smoke tester, manometer (pressure gauge) | Shall have no air leakage and no inflow. ● Shall be no drastic difference in design value for static pressure of duct |
| Inspection port | 2- (5) | Inspection window open/close state | Smoke tester | Opening and closing shall be smooth with no air leaks. |
| Safety | Important point 4 | Safety measures for inspection scaffold and passage away. | Visual, safety & health regulations | Shall be no corrosion, breakage or looseness. |

3. Fan and electric motor

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

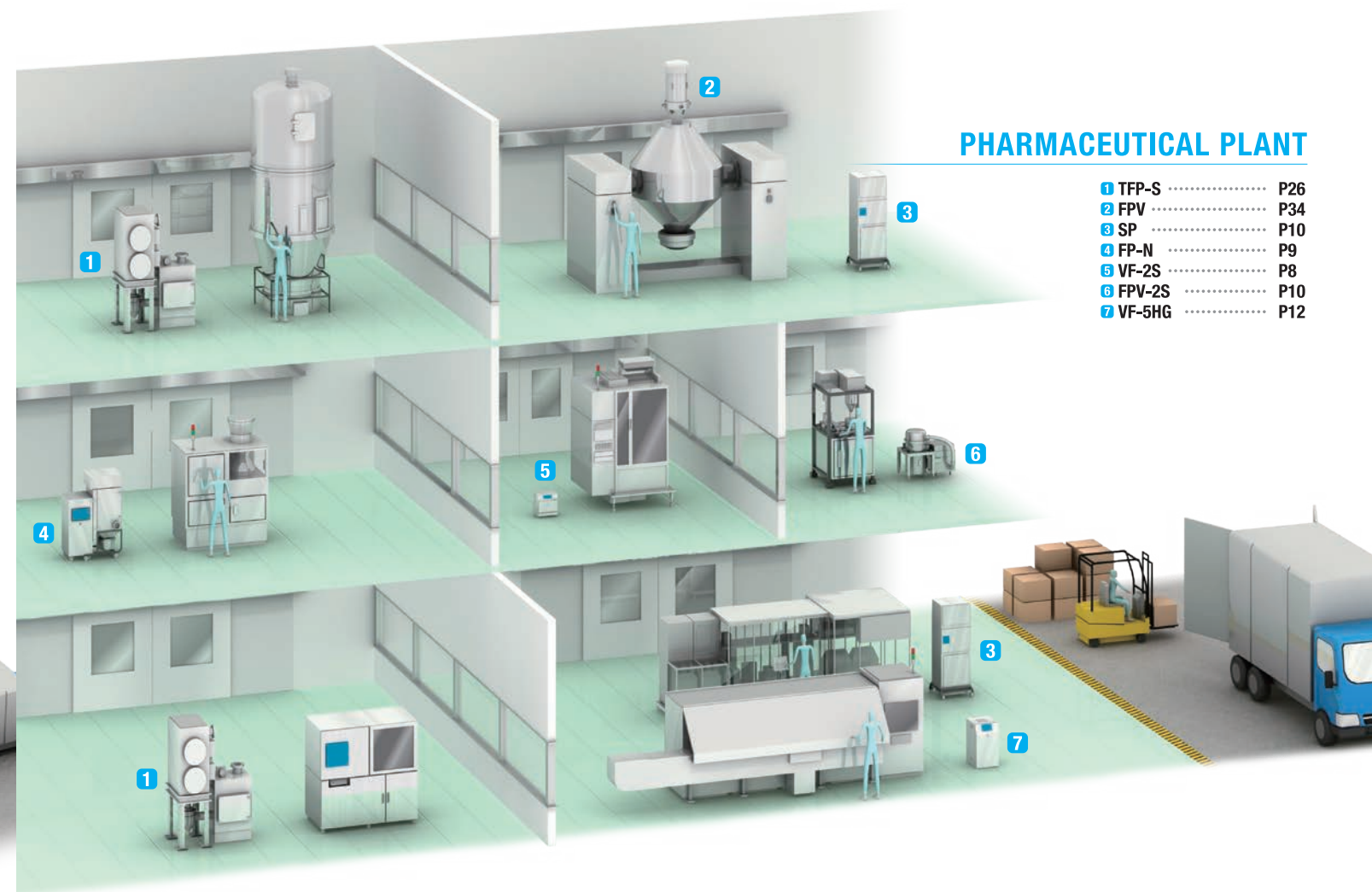
Dust removal device (Air cleaning device)

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



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.



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

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



To Ensure Safe Operation

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

- To ensure proper usage of this product please read the instruction manual carefully before using.
- Standard model dust collectors are for collecting dust/powder that is not likely to cause fires or dust explosions.
- Do not suction the following materials:
 - Explosive materialsmagnesium, aluminum, titanium, zinc, epoxies, flour, etc.
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Sparkssparks, or dust that contains sparks
 - Fire remainscigarette stubs, ashes, etc.
 - Others.....water, oil, liquid chemicals, toxic dust such as asbestos, etc.
- In case of suctioning dust including sparks produced by polishing or cutting work, Pre-dust box is required. Consult with Amano branch office to select the appropriate model.
- This machine is not an explosion-proof type. Do not install the machine at hazardous area specified by laws.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- 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.
- Please perform daily and periodical maintenance work in accordance with instructions described in the operation manual. Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- 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.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

■ VNA, FCN

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

■ Laser marking dust collector (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, PiF-D/SD, PiE-60DN, IX-D, IP-D)

- To ensure proper usage of this product please read the instruction manual carefully before using.
- Dust explosion pressure diffusion type dust collector collects flammable dust (with dust explosiveness). Flammable substances, flammable gases and mixtures of flammable dust and gases can not be collected.
- Do not suction the following materials:
 - Highly combustible potentially explosive materials..... magnesium, etc.
 - Flammable materials..... gasoline, thinner, benzene, kerosene, paint, etc.

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

■ Fume Collector (FD-10, HF, FCN)

- To ensure proper usage of this product please read the instruction manual carefully before using.
- The Fume Collector FCN series is designed to collect fumes from welding or cutting as well as sparks emitted during those tasks.
- Do not suction the following materials (they could cause explosions):
 - Explosive materials... magnesium, aluminum, titanium, zinc, epoxies, flour, etc.
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Adhesive materials.....water-soluble mist, oil mist, etc.
 - Otherwater, oil, liquid chemicals, cigarette stubs, ashes, as well as toxic dust from asbestos, etc.

- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- 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.
- Please perform daily and periodical maintenance work in accordance with instructions described in the operation manual. Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- 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

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

■ SR

- To ensure proper usage of this product please read the instruction manual carefully before using.
- 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:
 - Explosive materialsaluminum, magnesium, titanium, zinc, epoxies, etc.
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Fire sourcessuch as cigarette stubs, ashes, etc.
 - Others.....water, oil, liquid chemicals, toxic dust such as asbestos, etc.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket or dust bag.
- 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)

- To ensure proper usage of this product please read the instruction manual carefully before using.
- This device is for collecting ordinary dust/powder that is not likely to cause fires or dust explosions.
- Do not suction the following materials:
 - Explosive materials... magnesium, aluminum, titanium, zinc, epoxies, flour, etc.
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Sparkssparks, or dust that contains sparks
 - Fire sourcessuch as cigarette stubs, ashes, etc.
 - Other fluidssuch as water, oil, liquid chemicals, etc.
- If there is a danger of suctioning sparks when collecting flammable dust from polishing work and so forth, consult with your branch or sales office to select the appropriate model.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- 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.
- Please perform daily and periodical maintenance work in accordance with instructions described in the operation manual. Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- 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.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

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

- To ensure proper usage of this product please read the instruction manual carefully before using.
- The collecting dust of the dust-explosion pressure diffusion type industrial vacuum cleaner shall be the combustible dust of which we are ensured of dust-collecting capability by the evaluation of its dust explosion hazardous characteristics.
- Do not suction the following materials:
 - Highly combustible potentially explosive materials magnesium, etc.
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Sparkssparks, or dust that contains sparks
 - Fire sourcessuch as cigarette stubs, ashes, etc.
 - Other fluidssuch as water, oil, liquid chemicals, etc.
- To change the type of inflammable dust for collection have an (fee-charging) evaluation made for the extent of dust explosiveness, and only use on dust confirmed to be collectable by this device.
- We are not responsible for any determination of dust-collecting capability in case of a dust explosion risk remains unclear or without evaluation.
- Please consult with Amano branch office and sales office about (fee-charging) evaluation of dust explosion risk.
- Dust explosion pressure diffusion type dust collectors are designed to maintain conditions under which it is difficult for explosions to occur; however, they cannot completely prevent explosions.

- Install dust explosion pressure diffusion type dust collectors in a place where people will not be working above it. Also, do not place any factory equipment on or above the machine.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- 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.
- To prevent static buildup, do not use dust bag.
- Please perform daily and periodical maintenance work in accordance with instructions described in the operation manual. Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- 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

- To ensure proper usage of this product please read the instruction manual carefully before using.
- The collecting dust shall be limited to general particulates and combustible organic perticulates, which are ensured the dust-collecting capability by dust explosion risk assenment as well as with dust explosibility numerically expressed as follows.
Kstvalue 300×10²kPam/s or less
Pmax: 11×10³kPa or less
- Do not suction the following materials:
 - Potentially explosive combustible dust.....magnesium, aluminum, etc.
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Sparkssparks, or dust that contains sparks
 - Others.....toxic dust such as asbestos and fluids such as liquid chemicals
- To change the inflammable organic dust targeted for collection, make an evaluation of the extent of that dust's explosiveness, and only use on dust confirmed to be collectable by this device. We are not responsible for any determination of dust-collecting capability in case of a dust explosion risk remains unclear or without evaluation.
- Please consult with Amano branch office and sales office about (fee-charging) evaluation of dust explosion risk.
- This device has a structure designed to prevent explosions however it cannot completely prevent explosions..
- Remove all combustible material within 4.7 meters above the explosion discharge port and utilize non-combustible material.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- 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.
- Please perform daily and periodical maintenance work in accordance with instructions described in the operation manual. Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- 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.
- To prevent static buildup, do not use dust packs.
- Devices where explosions occurred cannot be reused.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

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

- To ensure proper usage of this product please read the instruction manual carefully before using.
- This machine is designed to handle mist of water-soluble and oil based cutting fluids.
- During intake (suction) of oily mist in the MZ-MR series, attach and use the after-filter option.
- Do not suction the following materials:
 - Flammable 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 the machine at below maximum inlet concentration.
- This device cannot remove odors or gas component.
- Use the EM-eH for die casting machines.
 - Do not use in magnesium die-casting machines.
 - Do not utilize parting agents (mold lubricators) containing diluted kerosene.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Be sure to ground the machine to protect against electric shock.
- Be sure to use pipes with the appropriate diameter and make them as short as possible according to dust collection conditions so that dust will not accumulate in them.
- If you want to use the machine to suction exhaust gases from vacuum pumps, combustion engines, etc., please inform our branch or sales office of the suction conditions and find out whether or not you can use this machine.
- Perform maintenance of electrodes according to the following items.
 - Inspect for dust contamination adhering to parts at least once a week.
 - If dust or contamination has deposited up to 2mm(0.07inch) at time of inspection then wash it away.
 - Periodically wash at least once every 3 months.
- When making inspections and replacing filters and components always cut the power and check that the fan rotation has completely stopped before starting the task.
- Do not use oily detergent adhering to the collecting unit or inflammable substances for cleaning the unit. Operating the unit with fluid containing inflammable substances may cause it to ignite and lead to explosions or fires.
【Banned inflammable substances】
 - Liquids such as gasoline, kerosene, thinner, toluene
 - Inflammable detergents (Detergents marketed under commercial names such as parts cleaners and brake cleaners)

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

■ Water-Soluble Mist Collectors (MC-45)

- To ensure proper usage of this product please read the instruction manual carefully before using.
- 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 machine at below maximum inlet dust concentration.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Always connect to ground to prevent electrical shocks.
- Be sure to use pipes with the appropriate diameter and make them as short as possible according to dust collection conditions so that dust will not accumulate in them.
- This device cannot remove odors or gas component.
- If piping must be connected to the exhaust (discharge) port then order an item with sealed structure specifications.
When connecting piping to a standard specification (non-contermeasure part) exhaust port, then air leaks might occur from the upper section of the unit.

■ SS-N

- To ensure proper usage of this product please read the instruction manual carefully before using.
- Do not allow intake/suction of the following materials:
 - Explosive materials... magnesium, aluminum, titanium, zinc, epoxies, flour, etc.
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Fire sourcessuch as cigarette stubs, ashes, etc.
 - Adhesive materials.....Water-Soluble Mist, oil mist, etc.
 - Other fluidssuch as water, oil, liquid chemicals
- Absolutely never operate this devices if the internal water level is not at the correct level.
- Please consult Amano branch office in the case of freezing in the winter season, cold areas, and outdoor installations.
- Remove the trapped dust and discharge it every day as sludge.
Discharge the sludge according to related legal regulations as specified by each company.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- 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).

- Please perform daily and periodical maintenance work in accordance with instructions described in the operation manual. Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- 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.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

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

- To ensure proper usage of this product please read the instruction manual carefully before using.
- This machine is for collecting fumes generated by laser markers and other items and deodorizes those fumes.
- Do not suction the following materials:
 - Explosive materials... magnesium, aluminum, titanium, zinc, epoxies, flour, etc.
 - Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
 - Corrosive substance.....chlorine gas, chlorine-sulfuric acid gas, hydrogen fluoride, etc.
 - Sparkssparks, or dust that contains sparks
 - Fire sourcessuch as cigarette stubs, ashes, etc.
 - OtherToxic dust such as asbestos and fluid such as water, oil, liquid chemicals, etc.
- Before selecting a particular model, please consult with us beforehand if the machine must intake (suction) dust containing sparks.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- 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.
- Please perform daily and periodical maintenance work in accordance with instructions described in the operation manual. Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- 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.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

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

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