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

www.amano.co.jp/English/environmental.html
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.
<table>
<thead>
<tr>
<th>AMANO ENVIRONMENTAL SYSTEMS LINEUP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Compact Dust Collectors</strong></td>
</tr>
<tr>
<td>Low pressure (static pressure up to 3 kPa)</td>
</tr>
<tr>
<td>Manual shaking</td>
</tr>
<tr>
<td>Pulse jet</td>
</tr>
<tr>
<td>VF-5N</td>
</tr>
<tr>
<td>V-3</td>
</tr>
<tr>
<td>VF-5DR</td>
</tr>
<tr>
<td>VF-5L</td>
</tr>
<tr>
<td>VF-5LD</td>
</tr>
<tr>
<td>Pneumatic collector</td>
</tr>
<tr>
<td>Manual shaking</td>
</tr>
<tr>
<td>Pulse jet</td>
</tr>
<tr>
<td>VF-25L</td>
</tr>
<tr>
<td>IP10/16B</td>
</tr>
<tr>
<td>VF-25L</td>
</tr>
<tr>
<td>V-3</td>
</tr>
<tr>
<td>VF-5DR</td>
</tr>
<tr>
<td>VF-5L</td>
</tr>
<tr>
<td>VF-5LD</td>
</tr>
<tr>
<td><strong>Large-scale Dust Collectors</strong></td>
</tr>
<tr>
<td>Plate filter</td>
</tr>
<tr>
<td>Woven filter</td>
</tr>
<tr>
<td>Woven filter</td>
</tr>
<tr>
<td>Molded cartridge filter</td>
</tr>
<tr>
<td>Bag-in bag-out type</td>
</tr>
<tr>
<td>Stainless steel specifications for high pharmacologically active powder</td>
</tr>
<tr>
<td><strong>Mist Collectors</strong></td>
</tr>
<tr>
<td>Electrostatic precipitator</td>
</tr>
<tr>
<td>Filter less</td>
</tr>
<tr>
<td>Electrostatic precipitator</td>
</tr>
<tr>
<td>Filter less</td>
</tr>
<tr>
<td>Large air volume (50m³/min [1765cfm]) or more</td>
</tr>
<tr>
<td>Wide diameter filters (up to 50m³/min [1765cfm])</td>
</tr>
<tr>
<td>For toners (organic powder)</td>
</tr>
<tr>
<td>For foodstuff and pharmaceutical plants</td>
</tr>
<tr>
<td>Self-Cleaning</td>
</tr>
<tr>
<td>Filter type</td>
</tr>
<tr>
<td>Pressure feed</td>
</tr>
<tr>
<td>Vacuum feed</td>
</tr>
<tr>
<td>Large volume conveyor (up to 200 tons/h)</td>
</tr>
<tr>
<td>High pressure (Compressor)</td>
</tr>
<tr>
<td>High vacuum feeder type</td>
</tr>
<tr>
<td>Low pressure (Blower)</td>
</tr>
<tr>
<td>Pressure feed</td>
</tr>
<tr>
<td>Vacuum feed</td>
</tr>
<tr>
<td>Large volume conveyor (up to 2 tons/h)</td>
</tr>
<tr>
<td>For feedstuff and pharmaceutical plants</td>
</tr>
<tr>
<td>Ejector pump type</td>
</tr>
<tr>
<td>For general-purpose plants and factories</td>
</tr>
<tr>
<td>Ejector pump type</td>
</tr>
</tbody>
</table>
Minimize fits securely into work bed.
Compact size and low-noise make it ideal for indoor work.

VF-5N
Superb dust collection capability and easy handling!

IS-15
Molded cartridge filter has internal jet amplifier to boost the unique Amano in-house jet effect.
Hosoe Facility manufactures products under strict quantity supervision.

Compact Dust Collectors
- Cyclone
- Built-in
- Molded cartridge filter

Specifications
- Output kW: 0.75
- Dimensions: W×D×H: 520×650×1200 mm
- Suction port: Diameter 150 mm
- Recommended breaker [A]: 10
- Static pressure [kPa]: 2.65
- Airflow m³/min: 0
- Area m²: 1.6
- Volume [U.S. gallon]: 5.9
- Motor
  - Type: Dry dust
  - Efficiency: IE2
  - Energy-saving: Premium efficiency motor (IE3)

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

Specifications
- Output kW: 0.75
- Dimensions: W×D×H: 520×650×1200 mm
- Suction port: Diameter 118 mm
- Recommended breaker [A]: 10
- Static pressure [kPa]: 2.65
- Airflow m³/min: 0
- Area m²: 1.6
- Volume [U.S. gallon]: 5.9
- Motor
  - Type: Dry dust
  - Efficiency: IE2
  - Energy-saving: Premium efficiency motor (IE3)

PiF 15/30/45/60
Auto energy-saving operation via inverter & premium efficiency motor.

Specifications
- Output kW: 0.75
- Dimensions: W×D×H: 520×650×1200 mm
- Suction port: Diameter 150 mm
- Recommended breaker [A]: 10
- Static pressure [kPa]: 2.65
- Airflow m³/min: 0
- Area m²: 1.6
- Volume [U.S. gallon]: 5.9
- Motor
  - Type: Dry dust
  - Efficiency: IE2
  - Energy-saving: Premium efficiency motor (IE3)

Hosoe Factory
- Manufactures products under strict quantity supervision.
- The unique Amano in-house jet effect.
- Molded cartridge filter has internal jet amplifier to boost the unique Amano in-house jet effect.
- Manufactures products under strict quantity supervision.

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

Paint color JPMA (Japan Paint Manufacturing Association)  (Body F35-85A, Top/Bottom YN40)
- Weight kg: 70
- Diameter [mm]: 520
- Suction port: Diameter 150 mm
- Power cord m: 3 (4-core, without plug)
- Recommended breaker [A]: 10
- Static pressure [kPa]: 2.65
- Airflow m³/min: 0
- Area m²: 1.6
- Weight kg: 127
- Diameter [mm]: 649
- Suction port: Diameter 150 mm
- Power cord m: 3 (4-core, without plug)
- Recommended breaker [A]: 10
- Static pressure [kPa]: 2.65
- Airflow m³/min: 0
- Area m²: 4.1
- Weight kg: 92
- Diameter [mm]: 380
- Suction port: Diameter 105 mm
- Power cord m: 3 (4-core, without plug)
- Recommended breaker [A]: 10
- Static pressure [kPa]: 2.65
- Airflow m³/min: 0
- Area m²: 2.5
- Weight kg: 155
- Diameter [mm]: 256
- Suction port: Diameter 105 mm
- Power cord m: 3 (4-core, without plug)
- Recommended breaker [A]: 10
- Static pressure [kPa]: 2.65
- Airflow m³/min: 0
- Area m²: 1.2
- Weight kg: 300
- Diameter [mm]: 256
- Suction port: Diameter 105 mm
- Power cord m: 3 (4-core, without plug)
- Recommended breaker [A]: 10
- Static pressure [kPa]: 2.65
- Airflow m³/min: 0
- Area m²: 0.6
- Weight kg: 50
- Diameter [mm]: 127
- Suction port: Diameter 105 mm
- Power cord m: 3 (4-core, without plug)
- Recommended breaker [A]: 10
- Static pressure [kPa]: 2.65
- Airflow m³/min: 0
- Area m²: 0.3
- Weight kg: 20
- Diameter [mm]: 64
- Suction port: Diameter 105 mm
- Power cord m: 3 (4-core, without plug)
- Recommended breaker [A]: 10
- Static pressure [kPa]: 2.65
- Airflow m³/min: 0
- Area m²: 0.1
- Weight kg: 5
- Diameter [mm]: 38
- Suction port: Diameter 105 mm
- Power cord m: 3 (4-core, without plug)
- Recommended breaker [A]: 10
- Static pressure [kPa]: 2.65
- Airflow m³/min: 0
- Area m²: 0.01
- Weight kg: 2
- Diameter [mm]: 19
- Suction port: Diameter 105 mm
- Power cord m: 3 (4-core, without plug)
- Recommended breaker [A]: 10
- Static pressure [kPa]: 2.65
- Airflow m³/min: 0
- Area m²: 0.001
- Weight kg: 1
- Diameter [mm]: 10
- Suction port: Diameter 105 mm
- Power cord m: 3 (4-core, without plug)
- Recommended breaker [A]: 10
- Static pressure [kPa]: 2.65
- Airflow m³/min: 0
- Area m²: 0.0001
- Weight kg: 0.2
- Diameter [mm]: 5
- Suction port: Diameter 105 mm
- Power cord m: 3 (4-core, without plug)
- Recommended breaker [A]: 10
- Static pressure [kPa]: 2.65
- Airflow m³/min: 0
- Area m²: 0.00001
- Weight kg: 0.02
### PiF 75/120/150

**Pulse jet type dust collector**

Handles air flow of 60m³/min or more.

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

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. airflow ㎥/min</th>
<th>Max. static pressure kPa</th>
<th>Power supply</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>PiF 75</td>
<td>380</td>
<td>20.0±3.0 (200V 3-phase)</td>
<td>3-phase 200V 50/60Hz</td>
<td>1270</td>
</tr>
<tr>
<td>PiF 120</td>
<td>580</td>
<td>17.0±2.3 (100V single-phase)</td>
<td>3-phase 200V 50/60Hz</td>
<td>1500</td>
</tr>
<tr>
<td>PiF 150</td>
<td>800</td>
<td>15.0±1.8 (100V single-phase)</td>
<td>3-phase 200V 50/60Hz</td>
<td>1800</td>
</tr>
</tbody>
</table>

**Molded filter**

- Pulse jet type dust collector
- Automatic airflow control
- Manual airflow control

---

### PiF 200/300

**Pulse jet type dust collector**

Handles air flow of 160m³/min or more.

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

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. airflow ㎥/min</th>
<th>Max. static pressure kPa</th>
<th>Power supply</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>PiF 200</td>
<td>120</td>
<td>14.0±1.5 (100V single-phase)</td>
<td>3-phase 200V 50/60Hz</td>
<td>900</td>
</tr>
<tr>
<td>PiF 300</td>
<td>180</td>
<td>12.0±1.0 (100V single-phase)</td>
<td>3-phase 200V 50/60Hz</td>
<td>1200</td>
</tr>
</tbody>
</table>

**Molded filter**

- Pulse jet type dust collector
- Automatic airflow control
- Manual airflow control

---

### VF-2S

**24 hour continuous operation.**

- **Compact**
- **High static pressure 20 kPa**
- **Energy Saving**

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. airflow ㎥/min</th>
<th>Max. static pressure kPa</th>
<th>Power supply</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>VF-2S</td>
<td>2118</td>
<td>15.0±1.5 (100V single-phase)</td>
<td>3-phase 200V 50/60Hz</td>
<td>1500</td>
</tr>
</tbody>
</table>

**Molded filter**

- Pulse jet type dust collector
- Automatic airflow control
- Manual airflow control

---

### Mi/Mi-H

**Medium pressure & medium air flow model.**

Simultaneously suctions in suspended particulates, high-speed dispersed powder, and heavy cutting chip.

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

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. airflow ㎥/min</th>
<th>Max. static pressure kPa</th>
<th>Power supply</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mi/Mi-H</td>
<td>2837</td>
<td>20.0±3.0 (200V 3-phase)</td>
<td>3-phase 200V 50/60Hz</td>
<td>2000</td>
</tr>
</tbody>
</table>

**Molded filter**

- Pulse jet type dust collector
- Manual airflow control
- Manual airflow control

---

**Paint color**

- JPMA (Japan Paint Manufacturing Association) F15-85A

---

**Dimensions**

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. airflow ㎥/min</th>
<th>Max. static pressure kPa</th>
<th>Power supply</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>PiF 75</td>
<td>380</td>
<td>20.0±3.0 (200V 3-phase)</td>
<td>3-phase 200V 50/60Hz</td>
<td>1270</td>
</tr>
<tr>
<td>PiF 120</td>
<td>580</td>
<td>17.0±2.3 (100V single-phase)</td>
<td>3-phase 200V 50/60Hz</td>
<td>1500</td>
</tr>
<tr>
<td>PiF 150</td>
<td>800</td>
<td>15.0±1.8 (100V single-phase)</td>
<td>3-phase 200V 50/60Hz</td>
<td>1800</td>
</tr>
<tr>
<td>PiF 200</td>
<td>120</td>
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<td>Mi/Mi-H</td>
<td>2837</td>
<td>20.0±3.0 (200V 3-phase)</td>
<td>3-phase 200V 50/60Hz</td>
<td>2000</td>
</tr>
</tbody>
</table>
Handles ranging from common powder to toner. Layout-free model has a separate filter unit and blower unit.

### All-stainless steel body dust collector

**FP-N**

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

#### Filter Unit Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Resin filter</th>
<th>Standard filter</th>
<th>Resin filter</th>
<th>Standard filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP</td>
<td>Fine powders</td>
<td>Fine powders</td>
<td>Fine powders</td>
<td>Fine powders</td>
</tr>
<tr>
<td>IX</td>
<td>Fine powders</td>
<td>Fine powders</td>
<td>Fine powders</td>
<td>Fine powders</td>
</tr>
<tr>
<td>IX/IB</td>
<td>Fine powders</td>
<td>Fine powders</td>
<td>Fine powders</td>
<td>Fine powders</td>
</tr>
</tbody>
</table>

#### Blower Unit Specifications

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<tr>
<th>Model</th>
<th>Resin filter</th>
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<tbody>
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<tr>
<td>IX/IB</td>
<td>Fine powders</td>
<td>Fine powders</td>
</tr>
</tbody>
</table>

### Compact Dust Collectors

**SP**

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

#### Filter Unit Specifications

<table>
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<tbody>
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#### Blower Unit Specifications

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</tr>
<tr>
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<td>Fine powders</td>
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</tr>
</tbody>
</table>

### FPV-2S

Easily-washable high-pressure vacuum unit.

#### Filter Unit Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Resin filter</th>
<th>Standard filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP</td>
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</tr>
<tr>
<td>IX/IB</td>
<td>Fine powders</td>
<td>Fine powders</td>
</tr>
</tbody>
</table>
**FD-10**

Dust collector for welding work.
- Swing arm
- Caster
- Fire extinguishing mechanism

**Specifications**

<table>
<thead>
<tr>
<th>Filter Material</th>
<th>INI</th>
<th>FILTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg)</td>
<td>245</td>
<td>305</td>
</tr>
<tr>
<td>Dimensions (W×D×H) (mm)</td>
<td>998×651×1817</td>
<td>1268×660×1827</td>
</tr>
<tr>
<td>Airflow (㎥/min)</td>
<td>0</td>
<td>12</td>
</tr>
<tr>
<td>Power supply</td>
<td>1.5</td>
<td>2.2</td>
</tr>
<tr>
<td>Frequency</td>
<td>50Hz</td>
<td>60Hz</td>
</tr>
<tr>
<td>Power cord (m)</td>
<td>3</td>
<td>(without plug)</td>
</tr>
<tr>
<td>Recommended breakers (A)</td>
<td>15</td>
<td>20</td>
</tr>
<tr>
<td>Output kW</td>
<td>1.5</td>
<td>2.2</td>
</tr>
<tr>
<td>Diaphragm valve (pcs.)</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Molded cartridge filter</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

**VF-5HG**

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

**Specifications**

<table>
<thead>
<tr>
<th>Filter Material</th>
<th>INI</th>
<th>FILTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg)</td>
<td>152</td>
<td>203.5</td>
</tr>
<tr>
<td>Dimensions (W×D×H) (mm)</td>
<td>710×868×985</td>
<td>1345×995×1238</td>
</tr>
<tr>
<td>Airflow (㎥/min)</td>
<td>0</td>
<td>12</td>
</tr>
<tr>
<td>Power supply</td>
<td>0.75</td>
<td>1</td>
</tr>
<tr>
<td>Frequency</td>
<td>50Hz</td>
<td>60Hz</td>
</tr>
<tr>
<td>Power cord (m)</td>
<td>5</td>
<td>(without plug)</td>
</tr>
<tr>
<td>Recommended breakers (A)</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>Output kW</td>
<td>0.75</td>
<td>1</td>
</tr>
<tr>
<td>Max. static pressure (kPa)</td>
<td>2.5</td>
<td>2.5</td>
</tr>
</tbody>
</table>

**Dust collector for welding work.**

- Smoke sensor
- Spark sensor
- Pre-dust box

**Specifications**

<table>
<thead>
<tr>
<th>Filter Material</th>
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<tr>
<td>Frequency</td>
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<tr>
<td>Power cord (m)</td>
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<td>(without plug)</td>
</tr>
<tr>
<td>Recommended breakers (A)</td>
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</tr>
<tr>
<td>Output kW</td>
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<td>2.2</td>
</tr>
<tr>
<td>Diaphragm valve (pcs.)</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Molded cartridge filter</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

**HF**

- Push pull dust collecting system.

**Specifications**

<table>
<thead>
<tr>
<th>Filter Material</th>
<th>INI</th>
<th>FILTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg)</td>
<td>78</td>
<td>70</td>
</tr>
<tr>
<td>Dimensions (W×D×H) (mm)</td>
<td>440×488×798</td>
<td>570×570×1140</td>
</tr>
<tr>
<td>Airflow (㎥/min)</td>
<td>6.7</td>
<td>9.9</td>
</tr>
<tr>
<td>Power supply</td>
<td>1.1</td>
<td>0.875</td>
</tr>
<tr>
<td>Frequency</td>
<td>50Hz</td>
<td>60Hz</td>
</tr>
<tr>
<td>Power cord (m)</td>
<td>2.8</td>
<td>(without plug)</td>
</tr>
<tr>
<td>Recommended breakers (A)</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>Output kW</td>
<td>1.1</td>
<td>0.875</td>
</tr>
<tr>
<td>Max. static pressure (kPa)</td>
<td>20±3.0</td>
<td>17±2.3</td>
</tr>
</tbody>
</table>

*Performance values might change from those shown on custom order specifications.*
VF-5H

Low-cost laser marker dust collector.

- Laser marker dedicated dust collector (with deodorizing function)
- Zeolite precoating function delivers stable collection of fumes that tend to adhere to surfaces of filter.

Specifications:

- Max. airflow m³/min: 3.6 ± 0.2
- Output kW: 0.4
- Power supply: 3-phase 200V single-phase 100V
- Dimensions: W × D × H mm: 380 × 500 × 846
- Weight kg: 117
- Recommended breaker [A]: 15
- Dust removal: Automatic shaking
- Shape/Material: Molded cartridge / Polyester Spunbond
- Fumes removal: Scrubber for combustible dust. Wet type dust collector.

SS-N

Scrubber for combustible dust. Wet type dust collector.

Specifications:

- Max. airflow m³/min: 1.6
- Output kW: 0.4
- Power supply: Frequency 50Hz or 60Hz at single-phase 100V
- Dimensions: W × D × H mm: 380 × 500 × 846
- Weight kg: 66.8
- Recommended breaker [A]: 5 15
- Dust removal: Automatic shaking
- Shape/Material: Molded cartridge / Polyester Spunbond
- Fumes removal: Scrubber for combustible dust. Wet type dust collector.

PiH

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

Specifications:

- Max. airflow m³/min: 3.6
- Output kW: 0.4
- Power supply: 3-phase 200V common use
- Dimensions: W × D × H mm: 1745 × 1000 × 779
- Weight kg: 360
- Recommended breaker [A]: 5 7.3 10
- Dust removal: Automatic pulse jet (At fixed interval)
- Shape/Material: Molded cartridge / Polyester Spunbond
- Fumes removal: Scrubber for combustible dust. Wet type dust collector.
Reduce entering fire inside dust collector.
Prevent from a fire accident

Amano’s unique in-house cyclone

Force dust box & Cyclone

Pre-dust box

Cyclone

Pre-dust box

Cyclone

Centrifugal separator

Exhaust outlet

(to dust collector)

Suction port

(from hood)

Window

Inspection

(from hood)

Specifications

Model

DB-10

DB-20

DB-30

DB-40

Pressure loss

490Pa at 7.5m³/min

490Pa at 15m³/min

539Pa at 22.5m³/min

588Pa at 30m³/min

Airflow

m³/min

10

20

30

40

cfm

353.1

706.2

1059.4

1412.5

W×D×H

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

Dimensions

mm

460×340×610

500×380×610

560×420×640

620×450×640

Paint color

JPMA (Japan Paint Manufacturing Association)  J11-833

Performance values might change from those shown on custom order specifications.
V-SDR

Dust explosion pressure diffusion type industrial vacuum cleaner

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

VF-2LD

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

EM-8eII

Powerful collection of highly concentrated mist up to 1000mg/m³
Compact electric collection type mist collectors. Operational for both oil and water soluble mist
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.

EM-SC Lt

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

EM-eH

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

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

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

Easy toolless maintenance!
Maintenance is easy even in high positions such as upper parts of machine tools.

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

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

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

Easy toolless maintenance!
Maintenance is easy even in high positions such as upper parts of machine tools.

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

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Easy toolless maintenance!
Maintenance is easy even in high positions such as upper parts of machine tools.

Proprietary swirl flow separator
Ideal for collection from multiple machine tools.
Dust explosion pressure diffusion type dust collector with pulse jet dust removal system

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Power supply Frequency</th>
<th>Power supply Phase</th>
<th>Power</th>
<th>Motor type</th>
<th>Filter name</th>
<th>Filtration Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>PiE-30SDN</td>
<td>50Hz or 60Hz at 3-phase</td>
<td>200V</td>
<td>1.5</td>
<td>IE3</td>
<td>DN or D</td>
<td>80%</td>
</tr>
<tr>
<td>PiE-45SDN</td>
<td>50Hz or 60Hz at 3-phase</td>
<td>200V</td>
<td>2.2</td>
<td>IE3</td>
<td>DN or D</td>
<td>80%</td>
</tr>
<tr>
<td>PiE-60SDN</td>
<td>50Hz or 60Hz at 3-phase</td>
<td>200V</td>
<td>2.8</td>
<td>IE3</td>
<td>DN or D</td>
<td>80%</td>
</tr>
</tbody>
</table>

### Dust explosion pressure diffusion part

Pressure from explosion is discharged into air to prevent damage to the equipment.

### 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.

### Explosion pressure

- **400** (x102kPa or less)
- **11.5** m/s or less

### Dust explosion pressure diffusion type dust collector

- **Dust explosion pressure diffusion type dust collector with pulse jet dust removal system**

PiF-30SD and PiF-45SD have dust explosion-proof motors (motor having structure to prevent the invasion of the outside substance).

### Volley Pumps

- **Output kW**: 1.5
- **Drive power m**: 5 (4-core, without plug)
- **Weight kg**: 220

### Power supply

- **Model VNA-30SDN VNA-45SDN VNA-60DN**
- **Frequency**: 50Hz or 60Hz at 3-phase
- **Power supply**: 200V

### Filter

- **Filter name**: DN or D
- **Dust collection method**: Manual shaking
- **Filter element**: Woven plate (Anti-electrostatic filter)
- **Quantity**: 2 3 4

### Static pressure

- **[kPa]**: 2.72 1.71 0.60 2.72 1.71 0.90 2.73 2.53 0.76 2.53 0.76

### Specifications

<table>
<thead>
<tr>
<th>Property</th>
<th>PiE-30SDN</th>
<th>PiE-45SDN</th>
<th>PiE-60SDN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raw air</td>
<td>35 60 90</td>
<td>35 60 90</td>
<td>35 60 90</td>
</tr>
<tr>
<td>Flow</td>
<td>0 529 865</td>
<td>0 706 1236</td>
<td>0 1059 1942</td>
</tr>
<tr>
<td>Diameter φ</td>
<td>196 (4-core, without plug)</td>
<td>196 (4-core, without plug)</td>
<td>196 (4-core, without plug)</td>
</tr>
<tr>
<td>Diameter φ</td>
<td>119</td>
<td>119</td>
<td>119</td>
</tr>
<tr>
<td>Diameter φ</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Diameter φ</td>
<td>25.6×33.5×65.2</td>
<td>33.5×35.5×71.4</td>
<td>33.5×35.5×71.4</td>
</tr>
<tr>
<td>Diameter φ</td>
<td>145.2</td>
<td>193.6</td>
<td>290.5</td>
</tr>
<tr>
<td>Static pressure</td>
<td>2.72 1.71 0.60</td>
<td>2.72 1.71 0.90</td>
<td>2.73 2.53 0.76</td>
</tr>
</tbody>
</table>

### Check valve

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

### Dust collector for explosive and flammable dust, aluminum and so on.

- **Dust explosion pressure diffusion type dust collector with pulse jet dust removal system**

### Dust collector for explosive and flammable dust, aluminum and so on.

- **Dust explosion pressure diffusion type dust collector with pulse jet dust removal system**

### Dust collector

- **Dust collector for explosive and flammable dust, aluminum and so on.**

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Power supply Frequency</th>
<th>Power supply Phase</th>
<th>Power</th>
<th>Motor type</th>
<th>Filter name</th>
<th>Filtration Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>PiF-30D</td>
<td>50Hz or 60Hz at 3-phase</td>
<td>200V</td>
<td>1.5</td>
<td>IE3</td>
<td>DN or D</td>
<td>80%</td>
</tr>
<tr>
<td>PiF-45D</td>
<td>50Hz or 60Hz at 3-phase</td>
<td>200V</td>
<td>2.2</td>
<td>IE3</td>
<td>DN or D</td>
<td>80%</td>
</tr>
<tr>
<td>PiF-60D</td>
<td>50Hz or 60Hz at 3-phase</td>
<td>200V</td>
<td>2.8</td>
<td>IE3</td>
<td>DN or D</td>
<td>80%</td>
</tr>
</tbody>
</table>

### Dust explosion pressure diffusion part

Pressure from explosion is discharged into air to prevent damage to the equipment.

### 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.

### Explosion pressure

- **400** (x102kPa or less)
- **11.5** m/s or less

### Dust explosion pressure diffusion type dust collector

- **Dust explosion pressure diffusion type dust collector with pulse jet dust removal system**

PiE-30D and PiE-45D have dust explosion-proof motors (motor having structure to prevent the invasion of the outside substance).

### Volley Pumps

- **Output kW**: 1.5
- **Drive power m**: 5 (4-core, without plug)
- **Weight kg**: 290

### Power supply

- **Model PiF-30D PiF-45D PiF-60D**
- **Frequency**: 50Hz or 60Hz at 3-phase
- **Power supply**: 200V

### Filter

- **Filter name**: DN or D
- **Dust collection method**: Manual shaking
- **Filter element**: Woven plate (Anti-electrostatic filter)
- **Quantity**: 4 6 8

### Static pressure

- **[kPa]**: 2.72 1.71 0.60 2.72 1.71 0.90 2.73 2.53 0.76 2.53 0.76

### Specifications

<table>
<thead>
<tr>
<th>Property</th>
<th>PiF-30D</th>
<th>PiF-45D</th>
<th>PiF-60D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raw air</td>
<td>35 60 90</td>
<td>35 60 90</td>
<td>35 60 90</td>
</tr>
<tr>
<td>Flow</td>
<td>0 529 865</td>
<td>0 706 1236</td>
<td>0 1059 1942</td>
</tr>
<tr>
<td>Diameter φ</td>
<td>196 (4-core, without plug)</td>
<td>196 (4-core, without plug)</td>
<td>196 (4-core, without plug)</td>
</tr>
<tr>
<td>Diameter φ</td>
<td>119</td>
<td>119</td>
<td>119</td>
</tr>
<tr>
<td>Diameter φ</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Diameter φ</td>
<td>25.6×33.5×65.2</td>
<td>33.5×35.5×71.4</td>
<td>33.5×35.5×71.4</td>
</tr>
<tr>
<td>Diameter φ</td>
<td>145.2</td>
<td>193.6</td>
<td>290.5</td>
</tr>
<tr>
<td>Static pressure</td>
<td>2.72 1.71 0.60</td>
<td>2.72 1.71 0.90</td>
<td>2.73 2.53 0.76</td>
</tr>
</tbody>
</table>
SNP
Space saving dust collector from the use of plate filter.

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

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)

BV
Ideal for air bleeding from silos and hoppers.

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

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

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

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

TFP-S
High-pharmacologically-active dust collector:
- Bag-in Bag-out type
- Wet-down
- Liner packs

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

We design to match customer needs.
WRT-3000/5000 Series (with an exhaust fan)

<table>
<thead>
<tr>
<th>Model</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airflow (m³/h)</td>
<td>280</td>
<td>300</td>
<td>350</td>
<td>400</td>
<td>450</td>
<td>500</td>
<td>550</td>
<td>600</td>
<td>650</td>
<td>700</td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td>250</td>
<td>255</td>
<td>260</td>
<td>265</td>
<td>270</td>
<td>275</td>
<td>280</td>
<td>285</td>
<td>290</td>
<td>295</td>
</tr>
<tr>
<td>Height (mm)</td>
<td>250</td>
<td>255</td>
<td>260</td>
<td>265</td>
<td>270</td>
<td>275</td>
<td>280</td>
<td>285</td>
<td>290</td>
<td>295</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>100</td>
<td>105</td>
<td>110</td>
<td>115</td>
<td>120</td>
<td>125</td>
<td>130</td>
<td>135</td>
<td>140</td>
<td>145</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Model</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
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<td>350</td>
<td>400</td>
<td>450</td>
<td>500</td>
<td>550</td>
<td>600</td>
<td>650</td>
<td>700</td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td>250</td>
<td>255</td>
<td>260</td>
<td>265</td>
<td>270</td>
<td>275</td>
<td>280</td>
<td>285</td>
<td>290</td>
<td>295</td>
</tr>
<tr>
<td>Height (mm)</td>
<td>250</td>
<td>255</td>
<td>260</td>
<td>265</td>
<td>270</td>
<td>275</td>
<td>280</td>
<td>285</td>
<td>290</td>
<td>295</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>100</td>
<td>105</td>
<td>110</td>
<td>115</td>
<td>120</td>
<td>125</td>
<td>130</td>
<td>135</td>
<td>140</td>
<td>145</td>
</tr>
</tbody>
</table>

SNP-M Series (General purpose filtration system)

<table>
<thead>
<tr>
<th>Model</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of vertical units</td>
<td>10</td>
<td>12</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>30</td>
<td>40</td>
<td>50</td>
<td>60</td>
<td>70</td>
</tr>
<tr>
<td>No. of horizontal units</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>50</td>
<td>60</td>
<td>70</td>
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<tr>
<td>kW</td>
<td>1.5</td>
<td>2.5</td>
<td>3.5</td>
<td>5.5</td>
<td>7.5</td>
<td>11</td>
<td>15</td>
<td>22</td>
<td>30</td>
<td>50</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>100</td>
<td>150</td>
<td>200</td>
<td>300</td>
<td>500</td>
<td>700</td>
<td>900</td>
<td>1200</td>
<td>1500</td>
<td>2000</td>
</tr>
</tbody>
</table>

SNP-3M2W

<table>
<thead>
<tr>
<th>Model</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
<th>SN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of vertical units</td>
<td>10</td>
<td>12</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>30</td>
<td>40</td>
<td>50</td>
<td>60</td>
<td>70</td>
</tr>
<tr>
<td>Number of horizontal units</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>50</td>
<td>60</td>
<td>70</td>
<td>80</td>
<td>90</td>
</tr>
<tr>
<td>kW</td>
<td>1.5</td>
<td>2.5</td>
<td>3.5</td>
<td>5.5</td>
<td>7.5</td>
<td>11</td>
<td>15</td>
<td>22</td>
<td>30</td>
<td>50</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>100</td>
<td>150</td>
<td>200</td>
<td>300</td>
<td>500</td>
<td>700</td>
<td>900</td>
<td>1200</td>
<td>1500</td>
<td>2000</td>
</tr>
</tbody>
</table>

Large-scale Dust Collection Systems

Example:

- SNP-3M2W
- SNP-M Series
- WRT-3000/5000 Series

Noise suppression

To meet the requirements of the original noise levels.
### Large-scale Dust Collection Systems

#### WRT-ST (with a separate fan)

<table>
<thead>
<tr>
<th>Model</th>
<th>No. of valves</th>
<th>Area</th>
<th>Quantity</th>
<th>Length</th>
<th>No. of filter valves</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>WRT-5000</td>
<td>6</td>
<td>850</td>
<td>0.1</td>
<td>12</td>
<td>10</td>
<td>60</td>
</tr>
<tr>
<td>WRT-7000</td>
<td>6</td>
<td>1000</td>
<td>0.1</td>
<td>16</td>
<td>10</td>
<td>120</td>
</tr>
</tbody>
</table>

#### WRT-ST3042ST (with a separate fan)

<table>
<thead>
<tr>
<th>Model</th>
<th>No. of valves</th>
<th>Area</th>
<th>Quarter</th>
<th>Length</th>
<th>No. of filter valves</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>WRT-3042</td>
<td>6</td>
<td>60</td>
<td>0.1</td>
<td>12</td>
<td>10</td>
<td>30</td>
</tr>
</tbody>
</table>

#### WRT-10000 Series (with a separate fan)

<table>
<thead>
<tr>
<th>Model</th>
<th>No. of valves</th>
<th>Area</th>
<th>Quarter</th>
<th>Length</th>
<th>No. of filter valves</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>WRT-10000</td>
<td>6</td>
<td>1250</td>
<td>0.1</td>
<td>16</td>
<td>10</td>
<td>200</td>
</tr>
</tbody>
</table>

#### WRT-7000 Series

<table>
<thead>
<tr>
<th>Model</th>
<th>No. of valves</th>
<th>Area</th>
<th>Quarter</th>
<th>Length</th>
<th>No. of filter valves</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>WRT-7000</td>
<td>6</td>
<td>1000</td>
<td>0.1</td>
<td>12</td>
<td>10</td>
<td>120</td>
</tr>
</tbody>
</table>

#### WRT-7000 Series (with a separate fan)

<table>
<thead>
<tr>
<th>Model</th>
<th>No. of valves</th>
<th>Area</th>
<th>Quarter</th>
<th>Length</th>
<th>No. of filter valves</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>WRT-7000</td>
<td>6</td>
<td>1000</td>
<td>0.1</td>
<td>12</td>
<td>10</td>
<td>120</td>
</tr>
</tbody>
</table>

### SI

#### BV

<table>
<thead>
<tr>
<th>Model</th>
<th>No. of valves</th>
<th>Area</th>
<th>Quarter</th>
<th>Length</th>
<th>No. of filter valves</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>BV-1008</td>
<td>6</td>
<td>800</td>
<td>0.1</td>
<td>12</td>
<td>10</td>
<td>50</td>
</tr>
</tbody>
</table>

### CT

#### CT

<table>
<thead>
<tr>
<th>Model</th>
<th>No. of valves</th>
<th>Area</th>
<th>Quarter</th>
<th>Length</th>
<th>No. of filter valves</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT-1006</td>
<td>6</td>
<td>800</td>
<td>0.1</td>
<td>12</td>
<td>10</td>
<td>50</td>
</tr>
</tbody>
</table>

### Appendix

- Dust removal: Automatic pulse jet
- Filter: Woven filter
- Dimensions: mm or inch
- Weight: kg or lb
- Air supplied: [L/min]
- Quantity: [valves]
### PPC

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (WxDxH)</th>
<th>Airflow</th>
<th>Static Pressure</th>
<th>Bag-in Bag-out Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPC-1232</td>
<td>1050x600x1200</td>
<td>250 m³/h</td>
<td>3.7</td>
<td>250 x 9.9</td>
</tr>
<tr>
<td>PPC-2000</td>
<td>1500x600x1200</td>
<td>500 m³/h</td>
<td>3.7</td>
<td>250 x 9.9</td>
</tr>
<tr>
<td>PPC-3000</td>
<td>2000x600x1200</td>
<td>750 m³/h</td>
<td>3.7</td>
<td>250 x 9.9</td>
</tr>
</tbody>
</table>

### MF

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (WxDxH)</th>
<th>Airflow</th>
<th>Static Pressure</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MF-200</td>
<td>1200x600x1200</td>
<td>250 m³/h</td>
<td>3.7</td>
<td>170 x 375</td>
</tr>
<tr>
<td>MF-300</td>
<td>1500x600x1200</td>
<td>500 m³/h</td>
<td>3.7</td>
<td>170 x 375</td>
</tr>
<tr>
<td>MF-400</td>
<td>2000x600x1200</td>
<td>750 m³/h</td>
<td>3.7</td>
<td>170 x 375</td>
</tr>
</tbody>
</table>

### TFP

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (WxDxH)</th>
<th>Airflow</th>
<th>Static Pressure</th>
<th>No. of Valves</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>TFP-0201</td>
<td>500x747x600</td>
<td>250 m³/h</td>
<td>3.7</td>
<td>2</td>
<td>420 x 920</td>
</tr>
</tbody>
</table>

### TFP-S

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (WxDxH)</th>
<th>Airflow</th>
<th>Static Pressure</th>
<th>No. of Valves</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>TFP-0201</td>
<td>500x747x600</td>
<td>250 m³/h</td>
<td>3.7</td>
<td>2</td>
<td>420 x 920</td>
</tr>
</tbody>
</table>

### ACR-PK

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (WxDxH)</th>
<th>Airflow</th>
<th>Static Pressure</th>
<th>No. of Valves</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACR-100%</td>
<td>1200x600x1200</td>
<td>250 m³/h</td>
<td>3.7</td>
<td>2</td>
<td>420 x 920</td>
</tr>
<tr>
<td>ACR-20%</td>
<td>1200x600x1200</td>
<td>250 m³/h</td>
<td>3.7</td>
<td>2</td>
<td>420 x 920</td>
</tr>
</tbody>
</table>
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.

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 fed. In the HAF system there is almost no crushing for conveying dust particles since the conveyance speed is low.

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 a high velocity. This conveyance speed is much greater than that of the high-pressure conveyance system at a typical speed of 20 to 30 m/s.

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

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

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 30 meters to long distances of 184 meters, and 10 or more conveyance test patterns are executed to match the customer’s application.

Installable at a reasonable cost. Compact pneumatic conveying feeder.

Small size pneumatic conveying feeder. Water-washable & modular design.
## Filter for Compact Dust Collectors

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Material</th>
<th>Features</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard fiber (Polyester sintered)</td>
<td>Polyester</td>
<td>Features: Heat resistant temperature (F) Dust removal Noncombustibility</td>
<td>For dust having a particle diameter of about 10μm.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Collecting efficiency Heat resistant temperature (F) Dust removal Noncombustibility</td>
<td>For dust having a particle diameter of about 10μm.</td>
</tr>
<tr>
<td>Anti-electrostatic filter</td>
<td>Polyester</td>
<td>Features: Heat resistant temperature (F) Dust removal Noncombustibility</td>
<td>For dust having a particle diameter of about 10μm.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Collecting efficiency Heat resistant temperature (F) Dust removal Noncombustibility</td>
<td>For dust having a particle diameter of about 10μm.</td>
</tr>
<tr>
<td>Old filter</td>
<td>Polyamide (Acrylic resin)</td>
<td>Features: Heat resistant temperature (F) Dust removal Noncombustibility</td>
<td>For dust having a particle diameter of about 10μm.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Collecting efficiency Heat resistant temperature (F) Dust removal Noncombustibility</td>
<td>For dust having a particle diameter of about 10μm.</td>
</tr>
<tr>
<td>Resin filter</td>
<td>High molecular weight polyurethane</td>
<td>Features: Heat resistant temperature (F) Dust removal Noncombustibility</td>
<td>For dust having a particle diameter of about 10μm.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Collecting efficiency Heat resistant temperature (F) Dust removal Noncombustibility</td>
<td>For dust having a particle diameter of about 10μm.</td>
</tr>
<tr>
<td>Electro filter</td>
<td>Polyamide</td>
<td>Features: Heat resistant temperature (F) Dust removal Noncombustibility</td>
<td>For dust having a particle diameter of about 10μm.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Collecting efficiency Heat resistant temperature (F) Dust removal Noncombustibility</td>
<td>For dust having a particle diameter of about 10μm.</td>
</tr>
<tr>
<td>Nonwoven filter</td>
<td>Polyamide</td>
<td>Features: Heat resistant temperature (F) Dust removal Noncombustibility</td>
<td>For dust having a particle diameter of about 10μm.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Collecting efficiency Heat resistant temperature (F) Dust removal Noncombustibility</td>
<td>For dust having a particle diameter of about 10μm.</td>
</tr>
</tbody>
</table>

## Filter for Systematic Pulsejet Dust Collectors

<table>
<thead>
<tr>
<th>Name</th>
<th>Material</th>
<th>Features</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teflon felt</td>
<td>Fluororesin fiber + glass fiber</td>
<td>Features: Heat resistant temperature (F) Acid-resistant Alkali-proof Noncombustibility</td>
<td>This filter is for high-temperature dust collection.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Collecting efficiency Heat resistant temperature (F) Acid-resistant Alkali-proof Noncombustibility</td>
<td>This filter is for high-temperature dust collection.</td>
</tr>
<tr>
<td>PPFE felt</td>
<td>Polyester</td>
<td>Features: Heat resistant temperature (F) Acid-resistant Alkali-proof Noncombustibility</td>
<td>This filter is for high-temperature dust collection.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Collecting efficiency Heat resistant temperature (F) Acid-resistant Alkali-proof Noncombustibility</td>
<td>This filter is for high-temperature dust collection.</td>
</tr>
</tbody>
</table>
**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. Amnos 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.

**Consult Amano for dust explosion countermeasures**

In client consultations for dust concentration dust explosion 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.

- Dust explosion test overview (video)
  

**Guide to selecting hood types & required air blow quantity**

**Capture velocity determined by dust ordinances**

<table>
<thead>
<tr>
<th>Hood models</th>
<th>Capture velocity (m/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure type hood</td>
<td>0.7</td>
</tr>
<tr>
<td>External attached hood</td>
<td></td>
</tr>
<tr>
<td>Side intake type</td>
<td>1.0</td>
</tr>
<tr>
<td>Downward intake type</td>
<td>1.0</td>
</tr>
<tr>
<td>Upward intake type</td>
<td>1.2</td>
</tr>
</tbody>
</table>

**Hood installation methods**

- 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 outward: 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.

**Opening area Correction coefficient**

<table>
<thead>
<tr>
<th>Opening area (m²)</th>
<th>m² ft²</th>
<th>Enclosure type</th>
<th>Externally attached type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2</td>
<td>〜</td>
<td>0.7</td>
<td>1.1</td>
</tr>
<tr>
<td>0.3</td>
<td>〜</td>
<td>0.7</td>
<td>1.2</td>
</tr>
<tr>
<td>0.6</td>
<td>〜</td>
<td>0.7</td>
<td>1.3</td>
</tr>
<tr>
<td>1.1</td>
<td>〜</td>
<td>0.7</td>
<td>1.4</td>
</tr>
<tr>
<td>2.1</td>
<td>〜</td>
<td>0.7</td>
<td>1.5</td>
</tr>
<tr>
<td>3.1</td>
<td>〜</td>
<td>0.7</td>
<td>1.6</td>
</tr>
</tbody>
</table>

**Correction coefficient**

- Q = 60 • Vₚ • (10³ x + A) • k
- Q = 60 • Vₑ • Vₑ / Wₑ

**Explosion protection Required air blow quantity**

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.

In client consultations for dust concentration dust explosion 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.

- Dust explosion test overview (video)
  

**Correction coefficient**

- Kst value
- Pmax
- MIE

<table>
<thead>
<tr>
<th>Opening area (m²)</th>
<th>Kst value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2</td>
<td>0.7</td>
</tr>
<tr>
<td>0.3</td>
<td>0.7</td>
</tr>
<tr>
<td>0.6</td>
<td>0.7</td>
</tr>
<tr>
<td>1.1</td>
<td>0.7</td>
</tr>
<tr>
<td>2.1</td>
<td>0.7</td>
</tr>
<tr>
<td>3.1</td>
<td>0.7</td>
</tr>
</tbody>
</table>

**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.

Dust removal device (Air cleaning device)

### 3. Fan and electric motor

<table>
<thead>
<tr>
<th>Item</th>
<th>Inspection item</th>
<th>Inspection method and tools</th>
<th>Judgement criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan</td>
<td>3-(1) Cooling surface wear, corossion and deformation</td>
<td>Visual, touch</td>
<td>Shall have no abnormalities to impair fan functions.</td>
</tr>
<tr>
<td></td>
<td>3-(2) Check for any wear, corrosion, deformation &amp; dust adherence on the casing (bearing) surface</td>
<td>Visual, touch</td>
<td>Shall have no abnormalities to impair fan functions.</td>
</tr>
<tr>
<td>Belt</td>
<td>3-(3) Check for any belt wear, ageing, breakage, or looseness</td>
<td>Visual, touch, scale, deflection gauge, thermometer</td>
<td>Shall have no abnormalities to impair fan functions.</td>
</tr>
<tr>
<td></td>
<td>3-(4) Check for any wear, corrosion, deformation &amp; dust adherence on the casing (bearing) surface</td>
<td>Visual, touch</td>
<td>Shall have no abnormalities to impair fan functions.</td>
</tr>
</tbody>
</table>

### Rotation direction

3-(1) Check rotation (inlet/outlet performance is in backup)

Visual | Shall have no abnormalities to impair fan functions.

### Fan bearing

3-(1) Bearing oil, oil level, & oil temperature of oil seal, oil cooler, & bearing oil temperature | Visual | Shall have no abnormalities to impair fan functions.

### Motor

3-(1) Check for any wear, tear, breakage, or looseness of the motor housing, motor shaft, etc. | Visual, touch, clamp meter | Shall have no abnormalities to impair fan functions.

### Safety cover

3-(2) Check if safety covers such as for belts, pulleys, etc. | Visual | Shall have no abnormalities to impair fan functions.

### Control panel

3-(3) Check for any dust accumulation in control panel | Visual | Shall have no abnormalities to impair fan functions.

### Fan exhaust air line

3-(4) Measure the air flow distribution within duct or relief port, and calculate the exhaust flow quantity (aerosol intake/exhaust performance is in backup) | Visual, touch | Shall have no abnormalities to impair fan functions.

### Safety

3-(5) Important point 2.3 | Safety equipment for fans, and electrical equipment | Safety, health regulations | Shall have no abnormalities to impair fan functions.

---

For local exhaust (dust removal) devices, the periodic self-inspections and their records shall be filed for a period of 3 years.
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
  http://www.amano.co.jp/corp/associated_kaigai.html
To Ensure Safe Operation

Standard Dust Collectors (VNA,PiVFV,-5NIS,-15MJ,IP,IX,BF,VS,SSP,N-FFV-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 particles that is likely to cause fires or dust explosions.
- Do not suction the following materials:
  - Explosive materials ......... magnesium, aluminium, titanium, zinc, epoxies, flour, etc.
  - Flammable materials ......... gasoline, thinner, benzene, kerosene, paint, etc.
  - Adhesive materials ......... water-soluble resin, oil, mist, etc.
  - Other .......................... 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.
- Please consult with Amano branch office to sales office about fee-charging evaluation of dust explosion risk.
- Dust explosion pressure diffusion type dust collectors are designed to maintain condition under which it is difficult for explosion to occur; however, they cannot completely prevent explosion.
- 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 basically outdoor equipment design due to the low risk of explosion. In case the dust collectors are installed indoor, the dust explosion pressure diffusion increases the risk of damage.
- To set up indoors, be sure to take a protective measure against dust explosion (including protection wall installation, elimination of elements which hamper the diffusion of explosion pressure, etc.) Along with confirming that a fire extinguishing technique to alleviate the hazard induced by explosion pressure diffusion.
- 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 hopper.
- Do not suction the following materials:
  - Explosive materials ......... magnesium, aluminium, titanium, zinc, epoxies, flour, etc.
  - Flammable materials ......... gasoline, thinner, benzene, kerosene, paint, etc.
  - Abrasive dust ................. such as dust emitted from high-speed cutters and grinders, etc.
  - Fire sources .......................... cigarette stubs, ashes, etc.
  - Other .......................... water, 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 consult our company beforehand.
- Be sure to ground the machine to protect against electric shock.
- 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 an item with sealed structure specifications. When connecting piping to a standard specification (non-countermeasured part) exhaust port, then air leaks might occur from the upper section of the unit.

Laser marking dust collector (PHI)
- This device collects dust from fumes and deodorizes odors from these fumes.
- Among other items, please comply with all caution items for standard dust collectors.

Dust explosion pressure diffusion type dust collector(VN-SD, VNA-SD/ON, PiF-PD/SD, PIE-SD/ON, 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 that dust explosion pressure diffusion type dust collectors collect. Flammable dust, 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.

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 sparcles emitted during those processes. It is designed to extinguish (reduce the original fume) before the fumes cause explosions.
- Do not use fume collectors if the fume has the potential to cause explosion.
- Explosive materials ......... magnesium, aluminium, titanium, zinc, epoxies, flour, etc.
- Flammable materials ......... gasoline, thinner, benzene, kerosene, paint, etc.
- Adhesive materials ......... water-soluble resin, oil, mist, etc.
- Other .......................... water, oil, liquid chemicals, toxic dust such as 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 product maintenance.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- Contact our company beforehand.

DB
- To ensure proper usage of this product please read the instruction manual carefully before using.
- The DB series is a precursor device for preventing sparcles from entering possible dust explosion risk.
- Do not suction the following materials:
  - Explosive materials ......... magnesium, aluminium, 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 sources .......................... cigarette stubs, ashes, etc.
  - Other .......................... water, 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 and or hopper.
- 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.
- 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 consult our company beforehand.
- Be sure to ground the machine to protect against electric shock.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

Industrial vacuum cleaners-concentrated cleaning systems (V-ISP/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 collector that is not likely to cause fires or dust explosions.
- Do not suction the following materials:
  - Explosive materials ......... magnesium, aluminium, titanium, zinc, epoxies, flour, etc.
  - Flammable materials ......... gasoline, thinner, benzene, kerosene, paint, etc.
  - Sparks ................. sparks, or dust that contains sparks
  - Fire sources .......................... such as cigarette stubs, ashes, etc.
  - Other fluids .......................... such as water, oil, liquid chemicals, etc.

- There is a danger of sucking sparcles when collecting flammable dust from polishing work and so forth, consult with your branch or sales office to select the appropriate model.
- To ensure 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.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket and or hopper.
- 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 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.

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 collection 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.
  - Sparks ................. sparks, or dust that contains sparks
  - Fire sources .......................... such as cigarette stubs, ashes, etc.
  - Other fluids .......................... such as water, oil, liquid chemicals, etc.

- To change the type of flammable dust collection for have an fire-charging evaluation made for the orded of dust explosiveness, and ony use this dust confirmed to be collectable by this device.
- We are not responsible for any determination of dust-collecting capability in case of dust explosion prevention device for preventing sparcles.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket and or hopper.
- 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 consult our company beforehand.
• This device has a structure designed to prevent explosions however it cannot completely prevent them.
• 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.
• Use the EM-eH for the die casting machines.
• Do not operate this device if the internal water level is not at the correct level.
• Please consult Amano branch office or sales office in the case of freezing in the winter season, cold area, and/or ordinances that are applicable to product maintenance.

**V-F2LD**

• To ensure proper usage of this product please read the instruction manual carefully before using.
• The collecting duct shall be limited to general particulars and combustible organic particulars, which are based on the dust-collecting capability by dust explosion risk assessment as well as with dust explosibility numerically expressed as follows.

<table>
<thead>
<tr>
<th>Flammable materials</th>
<th>Dust or fumes</th>
<th>Fire sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbon.........</td>
<td>gasoline, thinner, benzene, kerosene, paint, etc.</td>
<td>such as cigarette stubs, ashes, etc.</td>
</tr>
<tr>
<td>Other fluids ........</td>
<td>water, water vapor, chemicals</td>
<td>gas component.</td>
</tr>
</tbody>
</table>

■ To ensure proper usage of this product please read the instruction manual carefully before using.
• 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/or near place where explosive flammable dust scatters.
• Always connect to ground for tasks such as shakedown of dust adhering to filters and/or ordinances that are applicable to product maintenance.

**Water-Soluble Mist Collectors (MC-45)**

• To ensure proper usage of this product please read the instruction manual carefully before using.
• This device is designed to handle water soluble mist.
• Do not suction the following materials:
  - Flammable materials: gasoline, thinner, benzene, kerosene, paint, etc.
  - Dust or fumes: fire sources, such as cigarette stubs, ashes, etc.
  - Other fluids: water, water vapor, chemicals
• Keep the operating ambient temperature between 0 and 40°C (32 and 104°F).
• Do not suction dust that is explosive or corrosive, and/or ordinance that is applicable to product maintenance.

**Oil and Water-Soluble Mist Collectors (EM-eII, EM-eH, EM-SC, EM-SCILT, MZ, MJ, MS)**

• To ensure proper usage of this product please read the instruction manual carefully before using.
• This model is designed to handle mist of water soluble oil and oil based cutting fluids.
• During intake (suction) of oily mist in the MZ series, attach and use the after filter option.
• Do not suction the following materials:
  - Flammable materials: gasoline, thinner, benzene, kerosene, paint, etc.
  - Dust or fumes: fire sources, such as cigarette stubs, ashes, etc.
  - Other fluids: such as water, water vapor, chemicals.
• Keep the operating ambient temperature between 5 and 40°C (41 and 104°F).
• Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and/or ordinance that is applicable to product maintenance.

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

• 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 materials: gasoline, thinner, benzene, kerosene, paint, etc.
  - Dust or fumes: fire sources, such as cigarette stubs, ashes, etc.
  - Other fluids: such as water, water vapor, chemicals
• Keep the operating ambient temperature between 5 and 40°C (41 and 104°F).
• Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and/or ordinance that is applicable to product maintenance.

**Water-Soluble Mist Collectors (VF-5HG, VF-5HN, VF-5F)**

• 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 materials: gasoline, thinner, benzene, kerosene, paint, etc.
  - Dust or fumes: fire sources, such as cigarette stubs, ashes, etc.
  - Other fluids: such as water, water vapor, chemicals
• Keep the operating ambient temperature between 0 and 40°C (32 and 104°F).
• Do not suction dust that is explosive or corrosive, and/or ordinance that is applicable to product maintenance.

**TFP, T/SP, S-JHD, Pneumatic Conveying Systems**

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