IX/IP/IB Series – Powder Recovery System –

When sucking ultra-fine powder such as toner with a conventional recovery machine or vacuum cleaner, it is unavoidable that the filtration performance is insufficient, the powder is blown out, and foreign matter is mixed into the recovered powder. The IX series solves these problems by incorporating a new resin filter and a swirling flow separation mechanism. High collection performance can be obtained because the pore size of the filter is several μm. Since the filter medium uses an element without a surface treatment layer, which is a special single-layer sintered single-material plastic, impurities are not mixed into the recovered product (powder).

Features:

Fine powder recovery machine from general powder to toner

- Handles ranging from common powder to toner.
- Layout-free model has a separate filter and blower unit.
- Prevention of contamination of powder collection
- Since the filter unit and blower unit are separated, the installation layout is flexible
- No leakage of collected powder
- Equipped with a shatterproof mechanism when discharging powder
- Can be operated continuously for 24 hours

- Resin filter

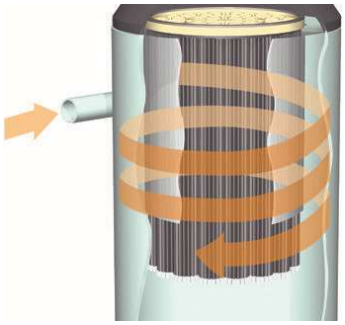
Material: High molecular weight polyethylene
Surface treatment: Polyethylene sintering
Corresponding models: IX, IXR, FPV, FP-N and FPV-2S
Application: Toner fine powder (particle size 10μm or less)

Various type of filter is available

- A reliable pulse jet system

A pulse jet method using compressed air is used to remove the powder adhering to the filter surface. It allows the recovery machine to operate continuously.

- High collection efficiency



Long-lasting filter due to the built-in swirl flow type separator

The sucked air swirls along the inner surface of the cylindrical body, and only the air with a low powder concentration inside passes through the filter. The powder on the outside where the powder concentration is high goes directly into the bucket. It also significantly reduces filter wear.

- Easy filter replacement

The filter replacement work can be easily done by simply opening the upper part of the main body. The new resin filter used in the IX series has a lifespan of 3 to 5 times (compared to our company) compared to conventional filter media, which greatly reduces maintenance man-hours.

“Anti-Explosion Dust Collector Type” for recover powders that have a high risk of explosion

IP-D Filter Unit

Anti-Electrostatic Filter

Prevent

Explosion pressure diffusion port

Protect

Explosion isolation check valve

Protect

IB-D Blower Unit

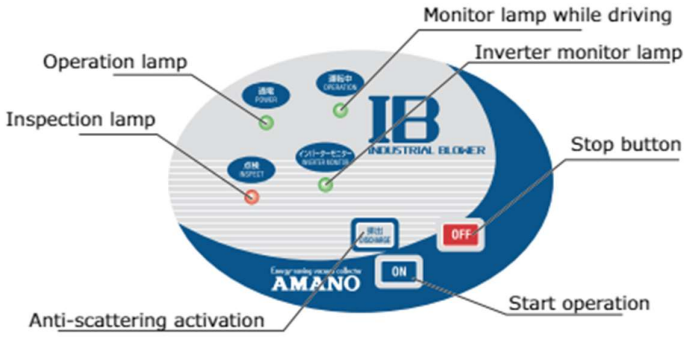
Fire extinguishing port

Protect

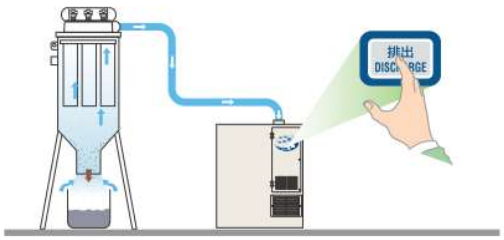
IB-D blower unit has a structure that is less likely to cause a dust explosion due to a dust explosion-proof motor and a dust-proof electrical box.

Prevent

A control panel that is easy to operate and maintains optimum operating conditions.



- Equipped with a new recovery powder scattering prevention mechanism



We consider the health of workers and the hygiene of the working environment are very important. When the recovered powder is discharged, the blower is operated at an ultra-low speed by inverter control to prevent the powder from scattering to the surroundings.

* This mechanism is not built with IB-D series.

- Sample combination of Filter unit and Blower Unit

( ) Filter area

			Standard filter				Fine filter			
			Standard unit		Anti-explosion unit		Standard unit		Anti-explosion unit	
			IP-3 (3.5m²)	IP-5 (4.7m²)	IP-3D (3.5m²)	IP-5D (4.7m²)	IX-3 (3.2m²)	IX-5 (4.8m²)	IX-3D (3.2m²)	IX-5D (4.8m²)
Blower	Standard unit	IB-3 (3.0m³/min)	◎	◎	◎	◎	◎	◎	◎	◎
		IB-4 (4.0m³/min)	○	◎	○	◎	○	◎	○	◎
		IB-5 (5.0m³/min)	–	◎	–	◎	–	◎	–	◎
	Anti explosion unit	IB-3D (3.0m³/min)	◎	◎	◎	◎	◎	◎	◎	◎
		IB-5D (4.0m³/min)	○	◎	○	◎	○	◎	○	◎

( )

◎ : Very Good ○ :Good – : NG

- Sample combination one blower and multiple filter unit

( ) Filter area

			Standard filter				Fine filter			
			Standard unit		Anti-explosion unit		Standard unit		Anti-explosion unit	
			IP-3 (3.5m²)	IP-5 (4.7m²)	IP-3D (3.5m²)	IP-5D (4.7m²)	IX-3 (3.2m²)	IX-5 (4.8m²)	IX-3D (3.2m²)	IX-5D (4.8m²)
Blower	Standard unit	IB-3 (3.0m³/min)	1	1	1	1	1	1	1	1
		IB-4 (4.0m³/min)	1	1	1	1	1	1	1	1
		IB-5 (5.0m³/min)	2	1	2	1	2	1	2	1
	Anti explosion unit	IB-3D (3.0m³/min)	1	1	1	1	1	1	1	1
		IB-5D (4.0m³/min)	2	1	2	1	2	1	2	1

Filter Units

IXP Series

- Resin filter
- Equipped with a resin filter for fine powder. For collecting fine powder such as toner.

IP Series

- Standard filter
- Equipped with a standard filter. For collecting general powder.

IX-D Series

- Antistatic resin filter
- Explosion pressure diffusion port
- For recovery of explosive flammable fine powder such as toner.

IP-D Series

- Antistatic filter
- Explosion pressure diffusion port
- For recovery of explosive flammable general powder.

- **Blower Units**

IB Series

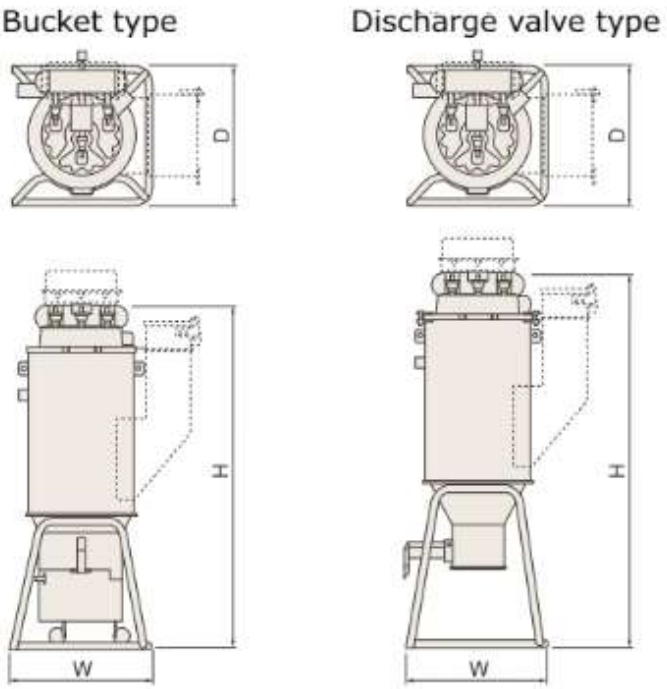
Energy-saving blower equipped with an inverter. mechanism.

IB-D Series

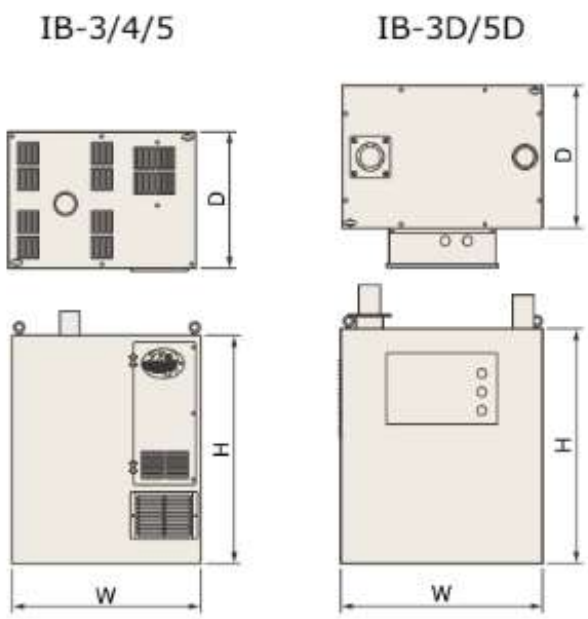
Equipped with a dust explosion-proof motor.

- Dimensions

Filter units



Blower units



- SPECIFICATION

FILTER UNIT

Particular	Unit	IP-3	IP-3D	IX-3
Power Supply	Volt	220	220	220
Frequency	Hz	60	60	60
Max. Static Pressure	kPa	5.39	6.08	6.37
Filter Material		POLYESTER	POLYESTER	POLYETHYLENE
Filter Area	m²	3.5	3.5	3.2
Suction Port Ø	mm	50.8	50.8	50.8
Dimension (WxDxH)	mm	653x658x1409	881x658x1537	651x654x1568
Weight	kg	65	83	65

Particular	Unit	IX-3D	IP-5	IP-5D
Power Supply	Volt	220	220	220
Frequency	Hz	60	60	60
Max. Static Pressure	kPa	5.88	5.88	5.88
Filter Material		POLYETHYLENE	POLYESTER	POLYESTER
Filter Area	m²	3.2	4.7	4.7
Suction Port Ø	mm	50.8	63.5	63.5
Dimension (WxDxH)	mm	879x654x1696	653x658x1609	881x658x1737
Weight	kg	83	70	88

BLOWER UNIT

Particular	Unit	IB-3	IB-4	IB-5
Power Supply	Volt	220	220	220
Frequency	Hz	60	60	60
Phase		3P	3P	3P
Output	kw/hp	1.5/2	3.7/4	5.5/7.3
Max Airflow	m³/min	3	5	6
Max. Static Pressure	kPa	13	23.5	27
Motor Type		STANDARD	STANDARD	STANDARD
WITH INVERTER		YES	YES	YES
Suction Port Ø	mm	76.3	76.3	76.3
Dimension (WxDxH)	mm	700x500x608	700x500x850	700x500x850
Weight	kg	90	130	155

Particular	Unit	IB-3D	IB-5D
Power Supply	Volt	220	220
Frequency	Hz	60	60
Phase		3P	3P
Output	kw/hp	2.2/3	5.5/7.3
Max Airflow	m³/min	5	5
Max. Static Pressure	kPa	12	22
Motor Type		EXPLOSION PROOF	EXPLOSION PROOF
WITH INVERTER		NO	NO
Suction Port Ø	mm	76.3	76.3
Dimension (WxDxH)	mm	600x430x776	750x520x866
Weight	kg	105	187