

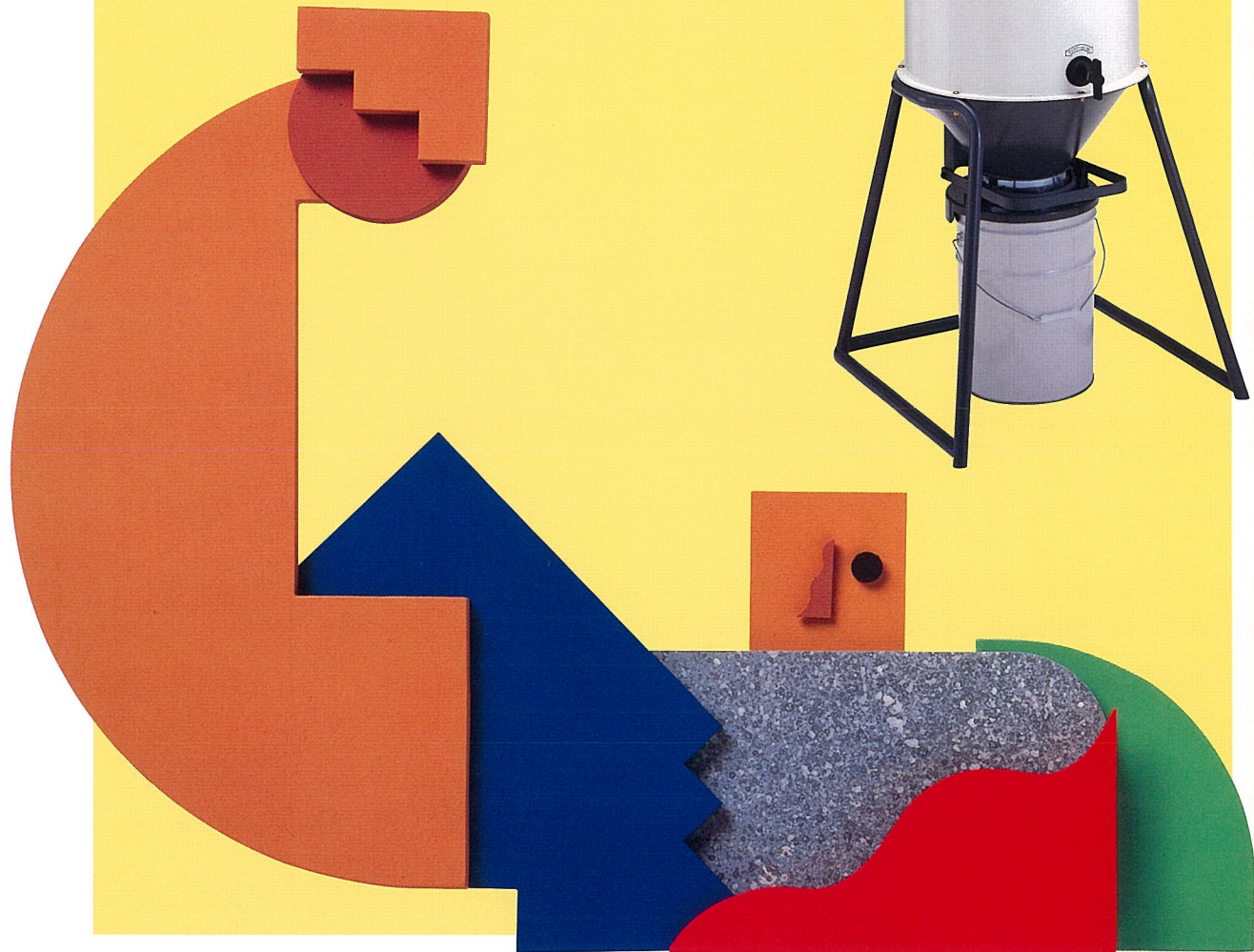
Swirling Flow Separation **PLUS!** Large area filtration



IS-15 *Little John*

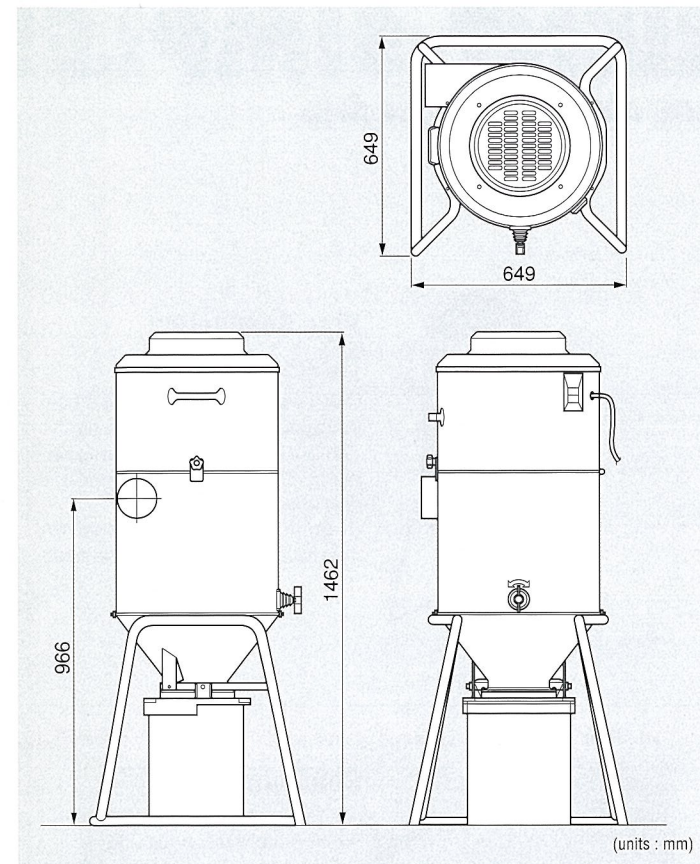
INNOVATIVE SMALL DUST COLLECTOR

A Dust Collector It's Easy To Use



A NEW ENVIRONMENTAL AGE
For a new generation that rates a company on how it deals with the environment

EXTERNAL VIEW



OPTIONS



- Duct (125mm dia.) CWF-012500
- Hose Band CWF-912500
- Caster/(Casters are provided for convenience when moving the machine.)
- Hood/(to be designed for your particular requirement)

CONSUMABLE PARTS

Part Name	Part No.	Remarks
Filter	VFR-200170	
Bucket cover cloth	VFR-4011	Made of cloth
Bucket	VFR-4017	20 liters, commercially available items can also be used.

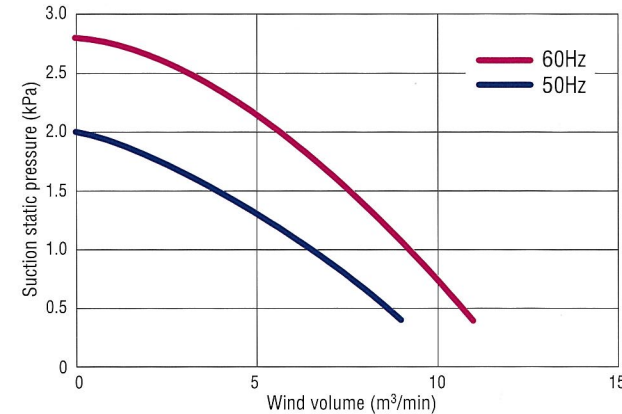
! FOR SAFE OPERATION

- Read the following cautions and warnings and make sure you thoroughly understand them before attempting to operate the equipment.
- Never allow any of the following substances to be sucked into the oil mist collector.
 - Explosive substances --- Aluminum, magnesium, titanium, lead, epoxy, etc.
 - Inflammable substances --- Gasoline, thinner, benzene, kerosene, paint, etc.
 - Dust containing sparks --- Powder and fumes containing sparks generated by high speed cutters, grinders, welding machines, etc.
 - Igneous substances --- cigarette butts, ashes, etc.
 - Sticky substances --- Soluble mist, oil mist, chemical products etc.
 - Other items -- water and chemicals, etc.
- Do not use the oil mist collector in or near locations where flammable, explosive or corrosive mist, fumes or gases are present.
- Always connect an electrical ground to avoid possible electrical shock.
- Consult with us when sucking volatile powder/dust. Collector models with safety provision for explosive dust/power are available.
- When sucking dust/powder that might contain sparks such as from machining of metal parts, always be sure to install a pre-dust box as well as a steel bucket.
- If your flammable particle from grinding operation has potential risk of sparks, consult with us for our recommended model for your particular requirement.
- Select an adequate pipe diameter, which would not allow dust accumulation in it. Also layout the piping in the shortest possible distance.
- Dispose of the dust in the bucket daily so it does not over-accumulate.

SPECIFICATIONS

Model	IS-15		
Power (Volts*Hz)	3-phase 200V 50/60Hz		
Output (kW)	0.75		
50Hz	Air capacity (m³/min)*	0.0	6.0
	Static pressure (kPa)*	2.0	1.1
60Hz	Air capacity (m³/min)*	0.0	7.5
	Static pressure (kPa)*	2.8	1.5
Noise dB [A]	67±2		
Filter area (m²)	4.1		
Filter quantity (pcs.)	1		
Filter shape	New type molded cartridge		
Shake/drop method	Manual shaking method		
Bucket capacity (liters)	20		
Power cable (m)	3m (4-core, without plug)		
Suction port dia. (mm)	dia. 125		
Size (WxDxH)	649×649×1462mm		
Weight (kg)	70		
Paint color	Nitto (unit Y25-90A, lower/upper YN40)		

Performance Curve



Specifications and descriptions contained in this catalog may be subject to change without notice.

Distributed by:

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NEW-CONVENIENT-SIMPLE!

USES A HYBRID ISOLATOR DEVICE WITH A LARGE AREA FILTRATION AND SWIRLING FLOW DUST SEPARATION

CONVENIENT!



Dust Disposal

Uses a commercially available container. Great for dust disposal and storage.



Pipe Connection Direction

One of six different positions can be selected for the suction port and bucket by changing the pipe connection between the main unit and lower part of the unit. (Note that the position should not interfere when changing the filter)

SIMPLE!



Cleaning Filter

Filter cleaning is performed by manual shaking. Just twist the knob right and left for a simple cleaning operation.

Periodic maintenance is required to ensure optimum collector operation.



Replacing Filter

Just open the top of the unit to replace the filter. A locking device maintains operator safety during filter replacement, and no tools are needed so replacement is extremely simple. The filter is a consumable part and is subject to wear. Periodic inspection and replacement is required.

NEW!

Dust is separated by swirling flow, helping reduce to load on the filter

- Air containing dust particles is sucked inwards, forming a high speed flow and swirling downwards along the inner surface of the unit. The dust concentration becomes higher as the external air flow becomes faster, and only the air flow with a lower concentration of dust along the inner surface of the unit is filtered. The dust on the outer side of the air flow drops directly into the bucket without making contact with the filter. This primary dust isolation separates out about 50 percent of the dust and reduces the load from the filter.
- A flow control plate inside the unit distributes the air flow uniformly along the filter. This means no uneven load of dust is captured on any specific portion of the filter. This protects the filter from excessive wear and provides an effective way of filtration.

Slim & Compact

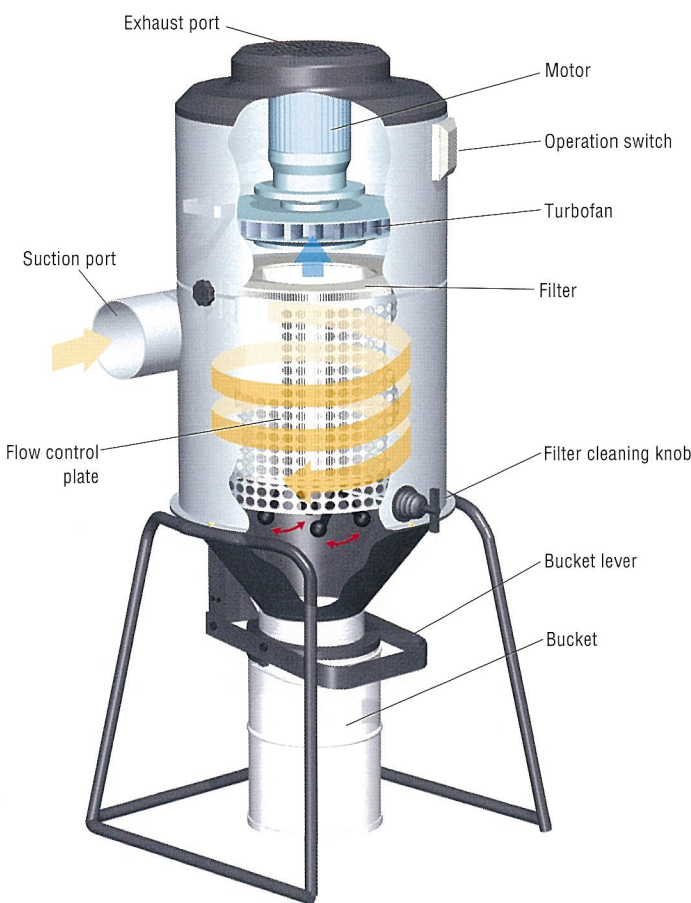
- Swirling dust separation and filtration capabilities are provided in a one single unit with an innovative, compact design.

An environmentally friendly filter with a large filtration area

- Utilizes a newly developed filter having an inner/outer dual layer filtration area. The filter with a wider surface area has longer life and operates with greater stability.
- A metal reinforcement has been eliminated. This makes it easy to crush and sort during disposal, and it is environmentally friendly.



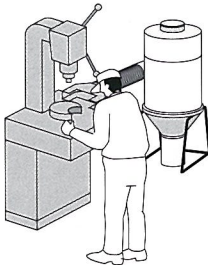
Internal Structure



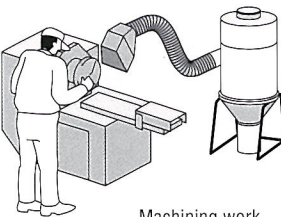
Applications



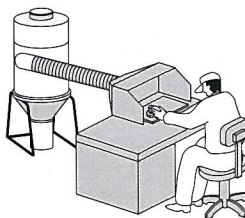
Printed circuit board processing



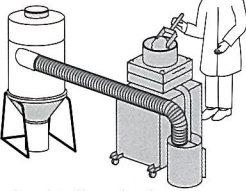
Drill press work



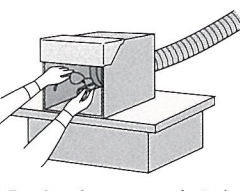
Machining work



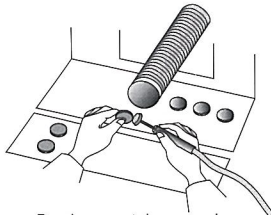
Small parts manufacturing



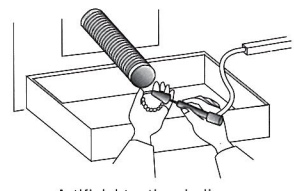
Foodstuff production



Eyeglass frames manufacturing



Precious metal processing



Artificial tooth grinding

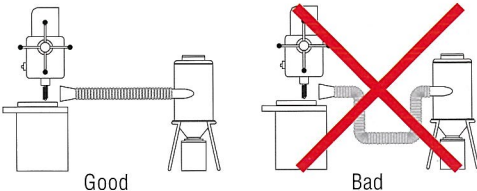
Application Guide

Machine	Qty	Specifications	Hood Shape	Air Volume
Table surface grinding machine Grinder	1	Grindstone up to dia. 200mm		6m³/min
Grinder	1	Grindstone up to dia. 250mm		6m³/min
Mill	1	Cutter up to dia. 100mm		6m³/min

Machine	Qty	Specifications	Hood Shape	Air Volume
Lathe	1	Small item machining		8m³/min
Drill press	1	Single axis		6m³/min
Powder exhaust port	1	Port dia. up to 150mm		6m³/min
Qty	1	Sealed type		10m³/min

Piping

The piping should have no drooping portions where dust/powder might collect. Keep the pipe length as short as possible.



USE THE IS-15 ONLY FOR COLLECTING DRY DUST THAT IS NON-VOLATILE AND SPARK-FREE. Do not allow the following substances to get into the collector.

Inflammable substances ---Gasoline, thinner, benzene, kerosene, paint, etc.	Explosive substances ---Aluminum, magnesium, titanium, lead, epoxy, etc. (*1)	Dust with sparks ---Dust produced by high speed cutters, grinders, welding machines, etc. (*1)	Welding fumes containing sparks. (*1)
			• Selection of the optimum model and specifications is required depending on particle diameters, to prevent leaks of fine particles such as toner.
Sticky substances --- Soluble mist, oil mist, chemical products etc.	Igneous substances ---cigarette butts, ashes, etc.	Oil mist & soluble mist generated from cutting processes, etc. (*1)	

Consult with us: (*1)

- When the dust coming into the collector might contain sparks, please refer to the "Centrifugal Pre-Dust Box DB-10" for information on dust pre-processing equipment.
- Special equipment models are available for handling explosive dust, welding fumes, and fine particles of mist, toners, etc.

