



# Mist Smoke Fume Filtration Collector

## Where do Mist and Smoke Come From? What's the Problem?

Metalworking Mist and Smoke – In machining processes, the coolant and lubricant liquids are applied, the generated force and heat create mist and smoke. The type of contaminant depends on what coolants are being used and the machining parameters. Water-soluble coolants produce a mist with larger droplet sizes where straight oils produce more of a smoke that can be submicron in size. Higher speed machines or processes that generate a large amount of heat will produce higher concentrations of contaminants.

This oil vapor can disperse into the operating environment. If people inhale vapor over long periods of time, there could be serious health consequences, such as occupational disease. Accumulated oil vapor can also pollute the operating environment. Also, if the machine tool operating system is exposed to oil vapor long term it could increase the damage rate. Cleaning oil pollution from the operating environment is also another cost in time and effort.

## Product Description

Our BL-VF Mist Smoke Fume Collector is used to recycle the oil vapor within indoor factory and workshop environment as well as easy integrated to CNC machine center. BL-VF can capture and filter particle-size matter from machining, wet grinding, milling, turning and other processes, primarily in the metalworking industry.

After installing the BL-VF collector onto the machine center, you can immediately recycle the oil vapor during machining. You are able to not only keep your clean work environment, but also increase work efficiency. You can protect your health from mist fume of air pollution as well as to reduce the machining lubricant costs. Our BL-VF Mist Smoke Fume Collector is your environmentally friendly solution to recycle the oil, reduce your pollution costs, and gain energy savings

## Product Features

- ✧ Centrifugal fan provides super strong attraction force and centrifugal force
- ✧ 2 stages filtration design achieves extreme filter ability to filter the oil and mist
- ✧ Stainless bottom strainer recycles the oil and lubricant effectively  
(Suggestion: Clean per year)
- ✧ Advanced internal filter catches small particle and fume over 90%  
(Standard filter :60% catching rate; Advanced filter: 90% catching rate)
- ✧ Pressure gauge indicates the internal filter status
- ✧ Outstanding motor performs low noise, less vibration, and long lifetime



## Product Specification

Model	BL-001-VF	BL-002-VF	BL-003-VF	BL-004-VF
Motor (HP)	0.5HP	1HP	1.5HP	2HP
Air flow (m <sup>3</sup> /min)	12	15	18	21
Intake Dim (mm)	150	150	150	150
Voltage (V)	220/380	220/380	220/380	220/380
Current (A)	1.5/0.87	2.8/1.62	4.5/2.6	4.8/2.7
Freq (Hz)	50/60	50/60	50/60	50/60
Speed (rpm)	2850/3500	2850/3500	2850/3500	2850/3500
Noise (dB)	65	68	72	75
Weight (kg)	36	42	48	52

- ※ Standard filter catching rate: 60% (suitable for mist and water)
- ※ Advanced filter catching rate: 90% (suitable for mist and fume)

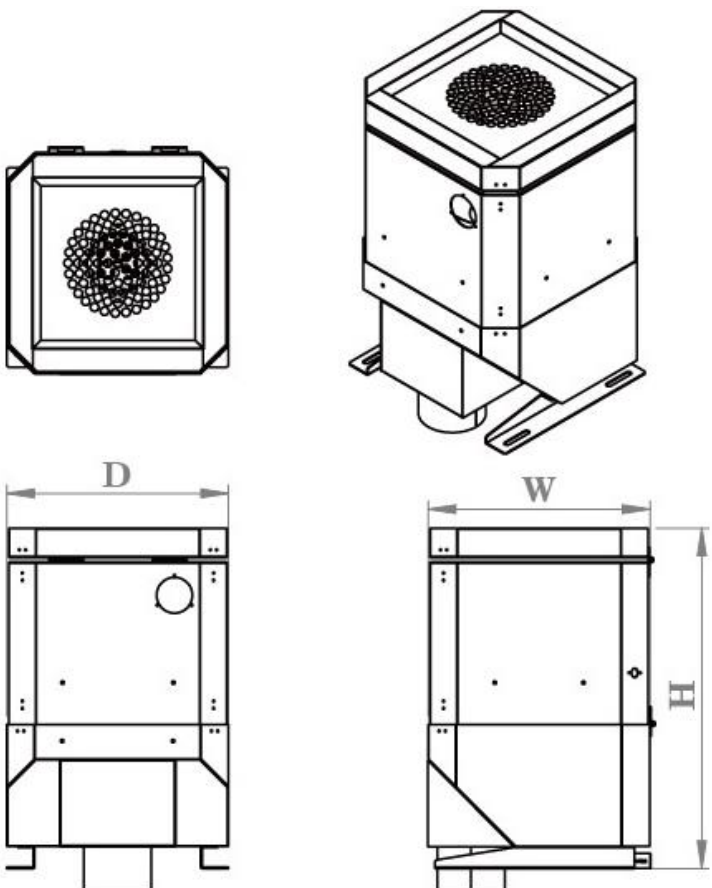
Units : mm

## Dimensions

TYPE	D	W	H
BL-001-VF	395	400	650
BL-002-VF	394	400	750
BL-003-VF	455	460	650
BL-004-VF	454	460	750

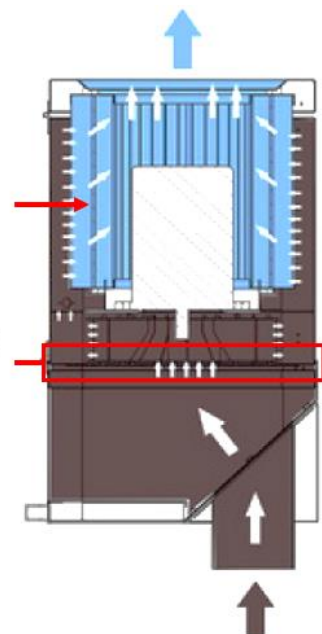
## Accessories

1. Duct flange\*1PC
2. Oil return tube connector \*2PC
3. Duct 3 meters\*1PC
4. Oil return tube 5 meters
5. Motor protective switch\*1PC

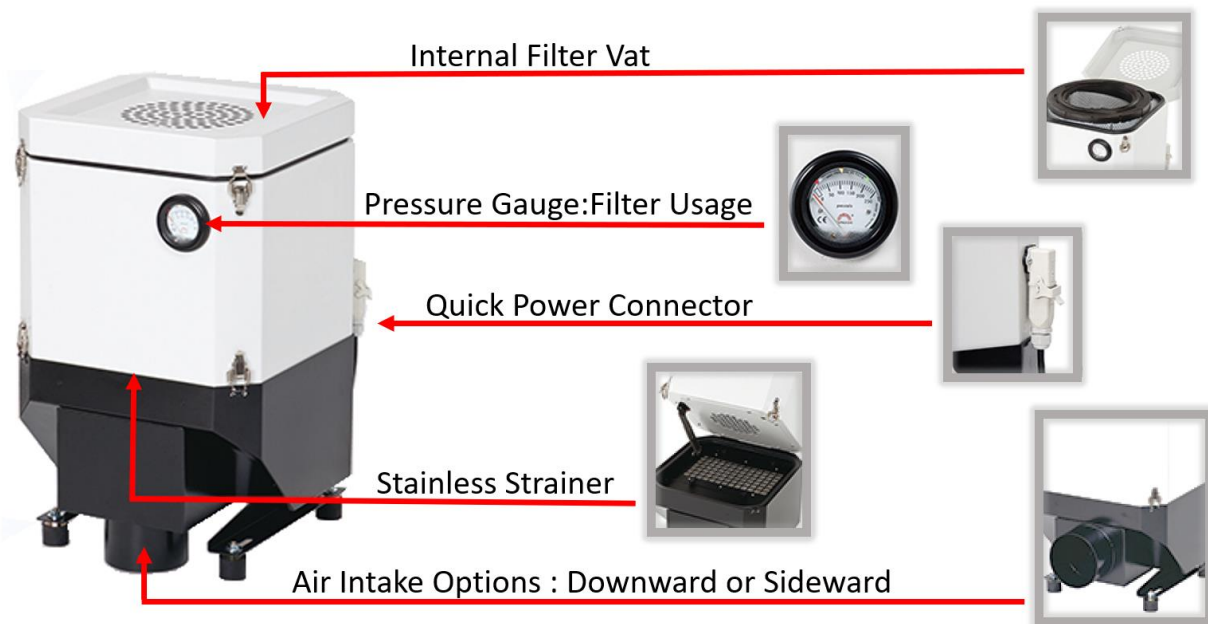


Particle Filter

Stainless Strainer







### Sideward Suction Installation Example

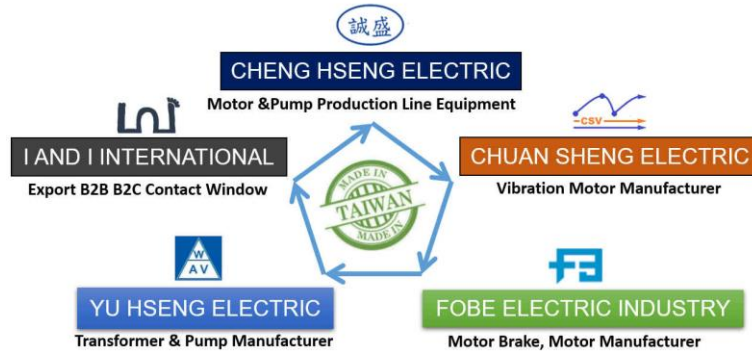


### Downward Suction Installation Example



# About Us

## COMPANY INFORMATION



We, I AND I INTERNATIONAL CO. LTD. are introducing ourselves as an emerging supplier of industrial electric motors, transformers, and several other items. We have come here to offer the world-class Coolant Pumps, Vibrating Motor, Adjustable Transformers, Adjustable Voltage Transformer and other industrial machines. These machines are designed and developed as per the predefined industrial specification to ensure their high compatibility and quality. Additionally, we use high-grade steel and other material to ensure the sturdiness and long working of the products.

Established in the year 2016, we are working as a Manufacturer (Chuan Sheng Electric, Yu Hsheng Electric, and CHENG HSENG Electric), Exporter, and Supplier of industrial motors and transformers. Our unmatched quality keeps us apart from other manufacturers and have helped us create our brand value in the market. Our all products are verified by CE for their functionality and reliable usage. Further, to control and manage all business operations, we have an experienced team of employees which works round the clock and perform their duties very well.

### Contact US

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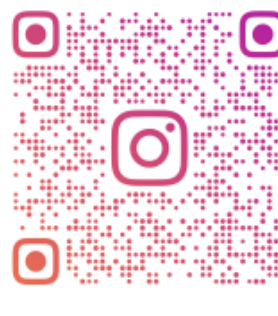
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