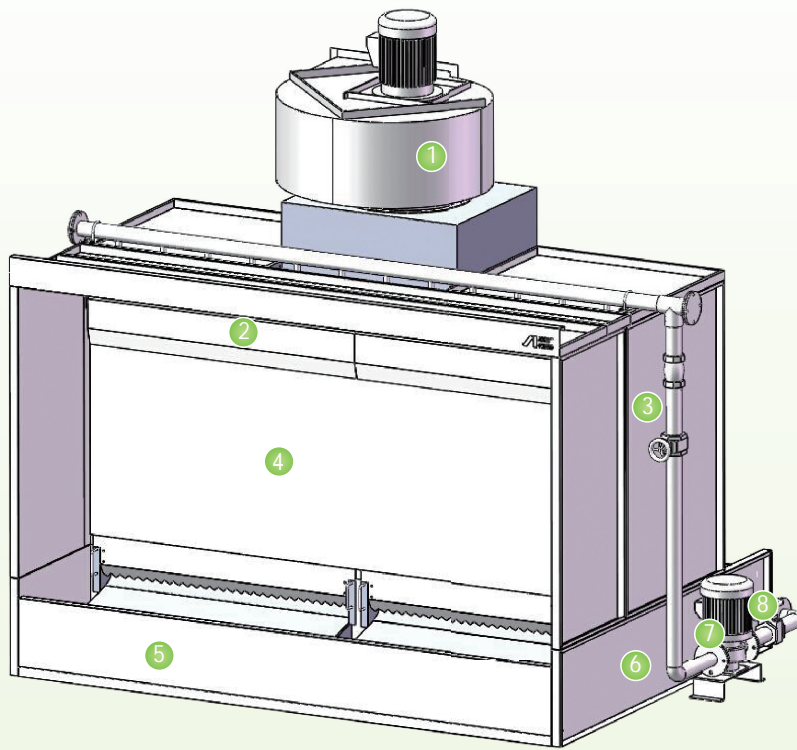


We are
considerate of
the earth
for the future.

A large, artistic illustration in shades of green and yellow. It features a central sun or moon, a tree on the right, and various leaves and butterflies scattered throughout. The style is painterly and organic, with soft edges and a focus on natural elements.

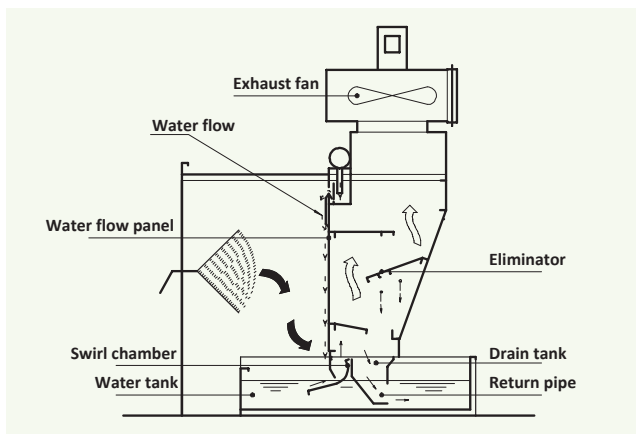
VBW Rear Maintenance Type Venturi Booth with Water Flow Board



- 1 Exhaust fan
- 2 Top water flow panel
- 3 Valve
- 4 Water flow panel
- 5 Water tank
- 6 Swirl chamber
- 7 Pump
- 8 Filter

Principle of the Collection Mechanism

The large and heavy high-speed paint mist collides with the water flow on the front water flow panel for collection. The remaining paint mist and air flowed into the main body of the spray booth by the suction of the fan, and then subjected to the centrifugal force on the semicircular surface of the swirl chamber, colliding on the water film for collection. The paint mist that has not collided with the water film will collide on the water droplets generated at the front end of the swirl chamber and be collected. The water droplets will collide on the three-stage separator for collection, and then return to the back of the water tank through the drain tank.



Features

Excellent collection efficiency

The swirl chamber system utilizing centrifugal force provides very high efficiency in collecting paint mist: 97% for melamine paint and 96% of plastic paint and lacquer (efficiency depends on the property of the paint).

Easily select models suitable for site conditions

Five standard models with a front width of 1.5m to 4.0m are available for selection according to specifications.

Easy cleaning, maintenance, and inspection

The swirl chamber and return pipe are provided as separate units. The swirl chamber has been made to be lighter in weight, and it can easily be separated and taken out from the water tank, making it easy to clean, maintain, and inspect the interior of the water tank.

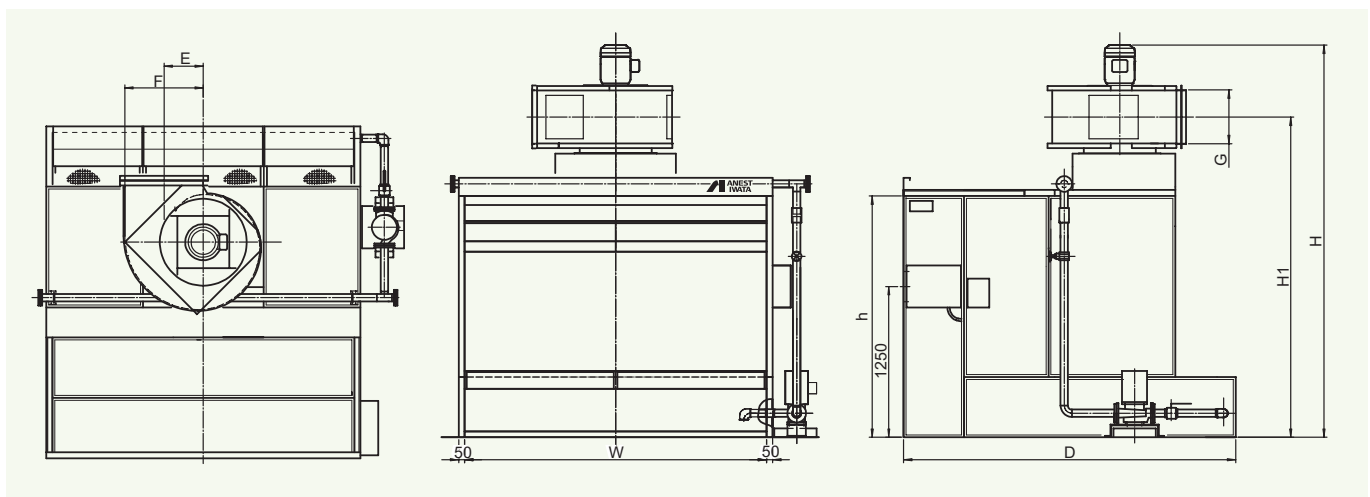
Rear Maintenance Type Venturi Booth with Water Flow Board VBW

Specifications

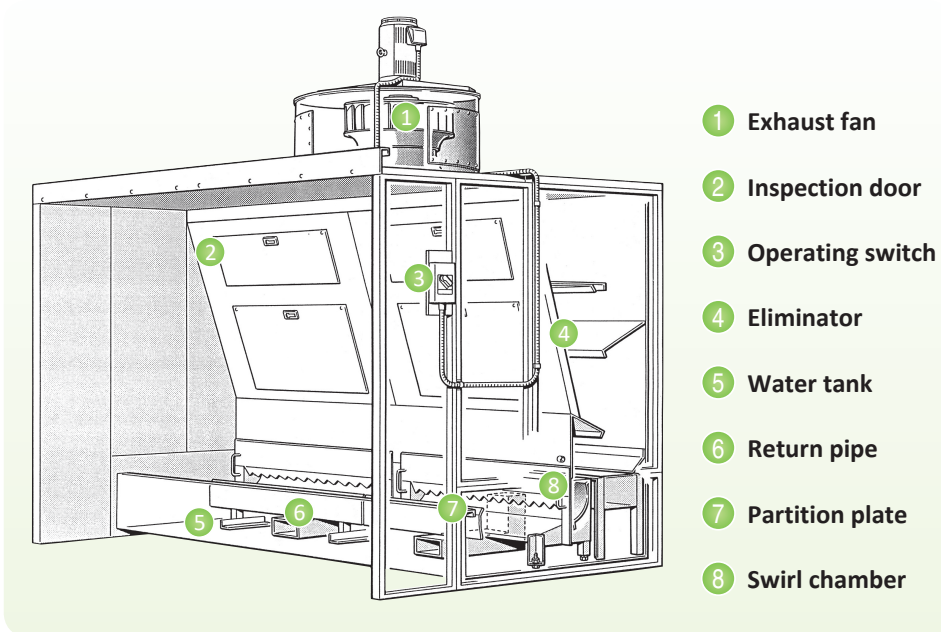
Items		Model	VBW-15D	VBW-20D	VBW-25D	VBW-30D	VBW-40D
Collection efficiency (%)	Melamine Paint		97 (reference value)				
	Lacquer Primer Paint		96 (reference value)				
	Acrylic Urethane Paint		93 (reference value)				
	Polyurethane Paint		95 (reference value)				
Noise level dB	Front 1.5m		84	84	85	86	88
	Side 1.5m		79	76	78	80	84
Exhaust fan	Type		Turbo fan (motor direct connection type)				
	Fan number		#3	#4	#4	#4	#4 1/2
	Air flow (m ³ /min)		110	145	180	215	290
	Motor type		Enclosed fan 380v 4P				
	Output (kW)		3.7		5.5		11
Pump	Type		In-line pump				
	Motor type		Enclosed fan 380v 2P				
	Output (kW)		1.5		2.2		3.7
Cleaning door		2 locations			4 locations		
Body color		N-7.5(Gray)					
Water volume (L)		890	1195	1480	1780	2365	
Body mass (kg)		640	740	850	880	1200	
Total mass (kg)		1530	1935	2330	3320	3565	

Dimensions

Items		Model	VBW-15D	VBW-20D	VBW-25D	VBW-30D	VBW-40D
Body dimension (mm)	Front (W)		1500	2000	2500	3000	4000
	Depth (D)		2750				
	Water tank		2250				
	Ceiling height (h)		2000				
	Overall height (H)		2890	2890	2995	2995	3100
Exhaust fan (mm)	Fan center height (H1)		2357	2357	2385	2385	2412
	B		390	460	460	460	500
	C		437	510	510	510	550
	E		285	325	325	325	364
	Inner dimension of companion flange (F×G)		572×386	652×441	652×441	652×441	730×496

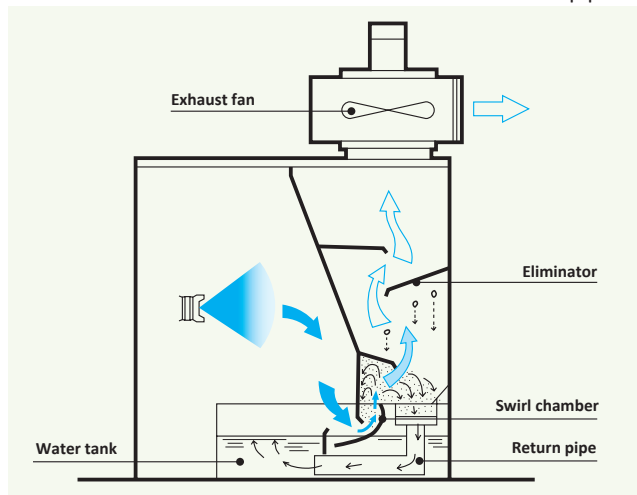


VB Venturi Spray Booth VB Type



Principle of the Collection Mechanism

The air containing paint mist is drawn at high speed into the swirl chamber by exhaust fan. The paint mist is separated from the air flow by the centrifugal force of the swirl chamber and collected as it hits the water film. The eliminator removes water to prevent it from entering the exhaust port. Water and paint mist are returned to the front of the water tank via the return pipe.



Features

Excellent collection efficiency

The swirl chamber system utilizing centrifugal force provides very high efficiency in collecting paint mist: 97% for melamine paint and 96% of plastic paint and lacquer paint (efficiency depends on the property of the paint).

Easy cleaning, maintenance, and inspection

The swirl chamber and return pipe are provided as separate units. The swirl chamber has been made to be lighter in weight, and it can easily be separated and taken out from the water tank, making it easy to clean, maintain, and inspect the interior of the water tank.

The cleaning door on the front panel allows the eliminator to be cleaned with ease.

Reduction in the exhaust duct installation cost

The number of exhaust fans in large models (VB-40D and 50D) has been reduced to one, resulting in a reduction in the exhaust duct installation cost.

Suggestion

- To prevent sludge from becoming non-sticky and to prevent booth rusting, be sure to keep the pH value in the water tank within range of 9-11 with sludge remover. Be careful when using paints with high acidity.
- Remove the sludge in the water tank regularly to prevent accumulation.

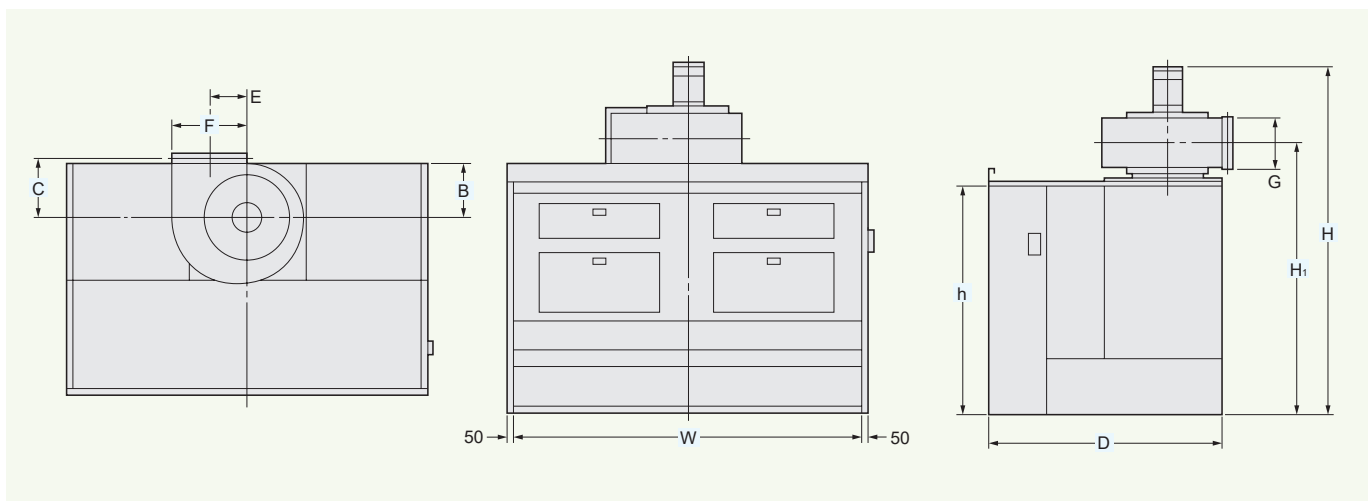
Venturi Spray Booth VB Type VB

Specifications

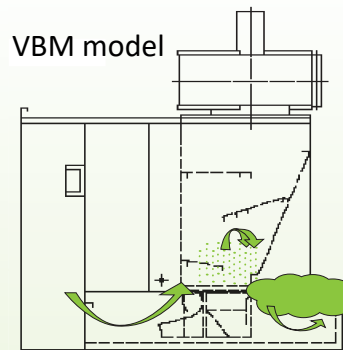
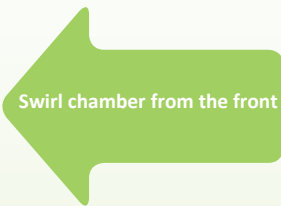
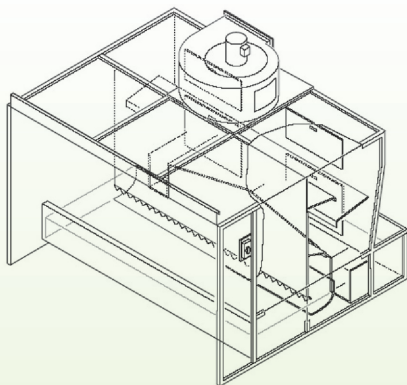
Items		Model	VB-15D	VB-20D	VB-25D	VB-30D	VB-40D
Collection efficiency (%)	Melamine Paint		97 (reference value)				
	Lacquer Primer Paint		96 (reference value)				
	Acrylic Urethane Paint		93 (reference value)				
	Polyurethane Paint		95 (reference value)				
Noise level dB	Front 1.5m		84	84	85	86	88
	Side 1.5m		79	76	78	80	84
Exhaust fan	Type		Turbo fan (motor direct connection type)				
	Fan number		#3	#4	#4	#4	#4 1/2
	Air flow (m3/min)		110	145	180	215	290
	Motor type		Enclosed fan 380v 4P				
	Output (kW)		3.7		5.5		11
Cleaning door		2 locations			4 locations		
Body color		N-7.5(Gray)					
Water volume (L)		630	840	1050	1260	1680	
Body mass (kg)		550	740	825	830	1100	
Total mass (kg)		1180	1580	1875	2090	2780	

Dimensions

Items		Model	VB-15D	VB-20D	VB-25D	VB-30D	VB-40D
Body dimension	Front (W)		1500	2000	2500	3000	4000
	Depth (D)		2000				
	Water tank		1500				
	Ceiling height (h)		2000				
	Overall height (H)		2890	2890	2995	2995	3100
Exhaust fan (mm)	Fan center height (H1)		2357	2357	2385	2385	2412
	B		390	460	460	460	500
	C		437	510	510	510	550
	D		285	325	325	325	364
	Inner dimension of companion flange (F×G)		572×386	652×441	652×441	652×441	730×496

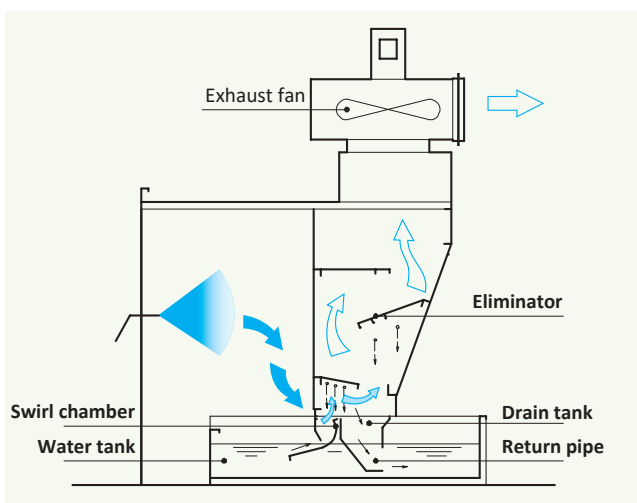


VBM Rear Maintenance Venturi Booth



Principle of the Collection Mechanism

The air containing paint mist is drawn at high speed into the swirl chamber by the exhaust fan. The paint mist is separated from the air flow by the centrifugal force of the swirl chamber and collected as it hits the water film. The eliminator removes water to prevent it from entering the exhaust port. Water and paint mist are returned to the front of the water tank via return pipe.



Features

Maintenance is more convenient

The sludge stays on the back of the water tank. Even if the spraying operation is in progress in the front, the sludge recovery operation can be carried out on the back.

Easily select models suitable for site conditions

Five standard models with a front width of 1.5m to 4.0m are available for selection according to specifications.

Specifications & Dimensions

Model		VBM-15D	VBM-20D	VBM-25D	VBM-30D	VBM-40D
Exhaust fan	Type	Turbo fan (motor direct connection type)				
	Fan number	#3	#4	#4	#4	#4 1/2
	Air flow (m ³ /min)	110	145	180	215	290
	Pressure (hPa)	9.8				
	Motor type	Enclosed fan 380v 4P				
Body dimension (mm)	Output (kW)	3.7		5.5		11
	Front (W)	1500	2000	2500	3000	4000
	Depth (D)	2750				
	Water tank	2250				
	Ceiling height (h)	2000				
Exhaust fan	Overall height (H)	2890	2890	2995	2995	3100
	Fan center height (H1)	2357	2357	2385	2385	2412
	Inner dimension of companion flange (F×G)	572×386	652×441	652×441	652×441	730×496

Venturi Booth Option VB

VBL Model with Normal Fluorescent Lights

A standard Venturi booth with normal fluorescent lights attached.

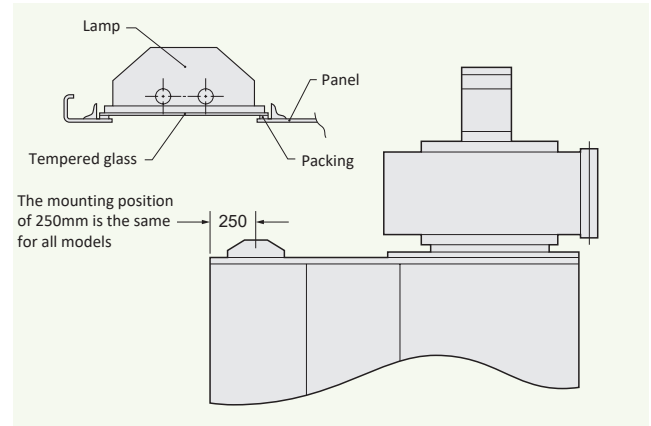
Specifications

Model	Specifications	No. of units
VBL-15D · 20D · 25D	200V 40W×2 lights	1
VBL-30D · 35D · 40D		2
VBL-50D		3

Switch and wiring specifications (for fluorescent lamps)

Switch : Control panel

Wire : Vinyl cab tire cable



VBD Model Safety-Enhanced Explosion-Proof (with Fluorescent Lights)

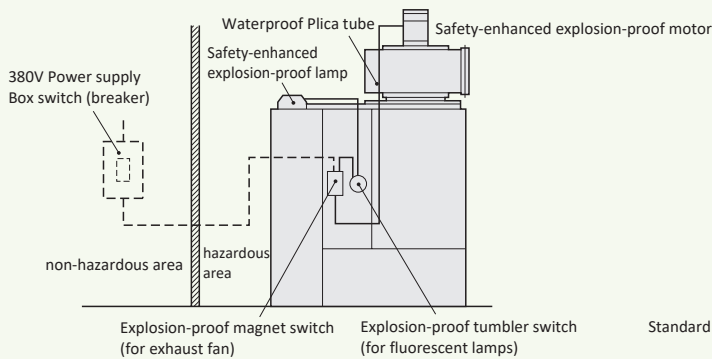
All the above-mentioned VBL electrical components are of increased safety and explosion-proof specifications.

However, the wiring between the VB-40D and 50D star-delta starter cabinet, motor and switch box (the dotted line in the figure below) shall be constructed by the user.

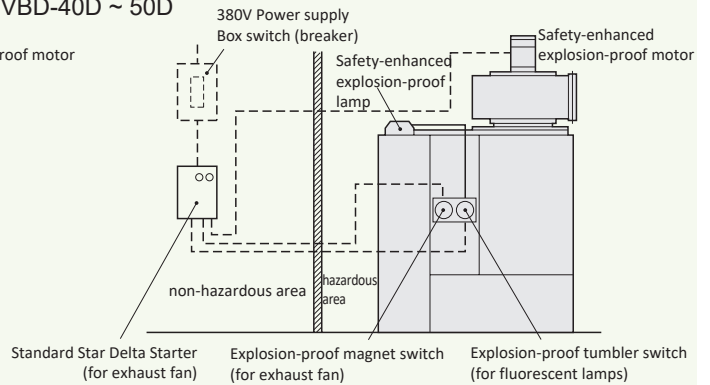
Fluorescent lamp specifications

Motor	Enhanced safety explosion-proof	
Fluorescent lamp	Safety-enhanced explosion-proof. No. of units same as VBL.	
Wiring	Waterproof Plica tube	
Switch	For motor	
	Switch box	Explosion-proof push button (VB-40D)
	Control panel	Explosion-proof magnetic switch (VB-15D ~ 30D)
For lights	Standard Star Delta Starter (VB-40D)	
	Explosion-proof tumbler switch	

VBD-15D ~ 35D



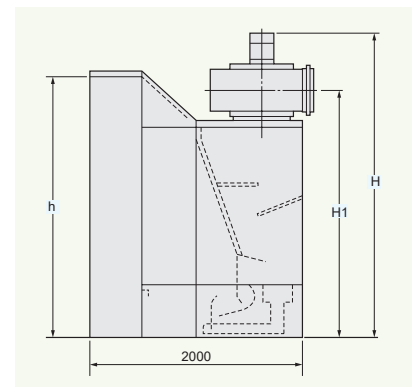
VBD-40D ~ 50D



VBH Model High Ceiling Specification

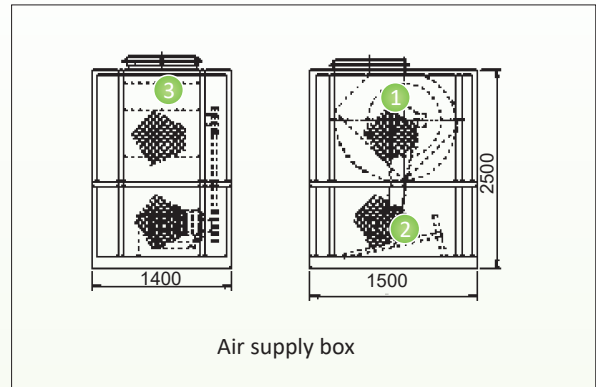
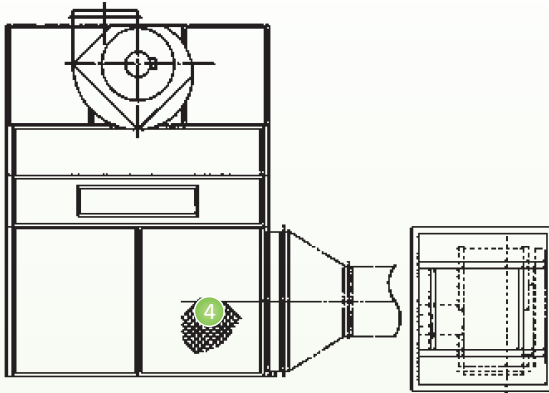
This model is standard Venturi booth with its hood located 500mm higher. The exhaust fan is of the standard specifications.

Model	Hood effective height (h)		Main unit total height (H)		Fan central height (H ₁)	
	50Hz	60Hz	60Hz	50Hz	50Hz	60Hz
VBH-15D	2500		2890		2357	
VBH-20D			2945	2890	2385	2357
VBH-25D			2995		2385	
VBH-30D			2995		2385	
VBH-35D			3220	3040	2537	2385
VBH-40D			3280	3100	2537	2385
VBH-50D			3280		2537	

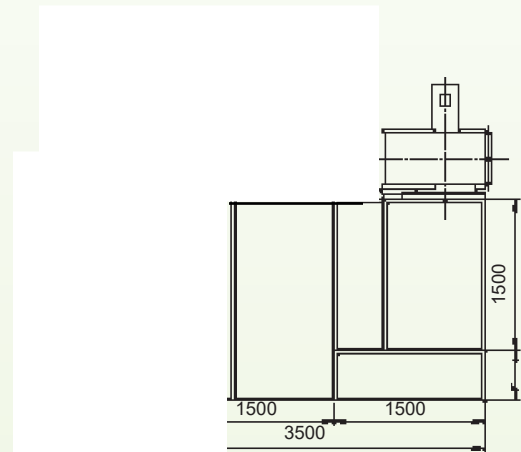
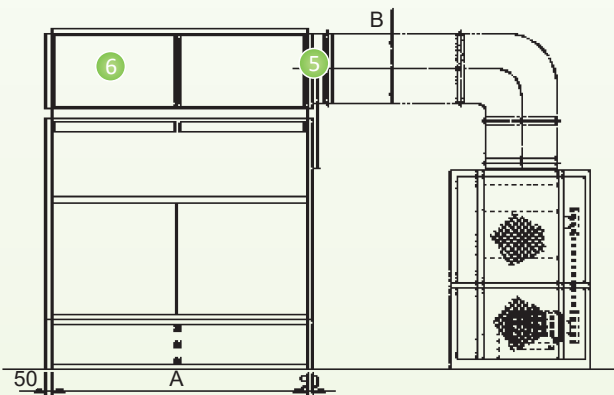


VBC Air Balance Booth

Forced supply of clean air to achieve a more beautiful painting and a more comfortable working environment.



Air supply box



- 1 Air supply fan
- 2 Air supply fan motor
- 3 Air supply primary filter
- 4 Air supply secondary filter
- 5 Volume damper
- 6 Air supply chamber

Features

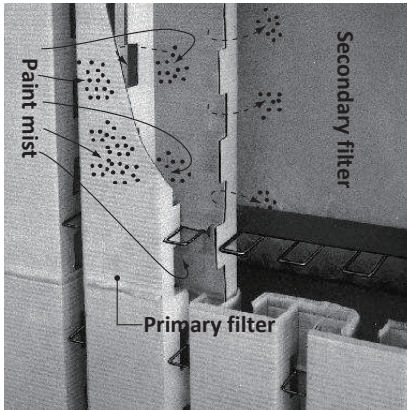
- The chamber filter area is large enough to provide a gentle blow at air flow rates from 1.0 to 1.5 m/s.
- The air supply chamber filter can be replaced from the floor to improve maintainability.
- With the chamber sticking out from the booth main body by 500mm, the booth requires less floor space to install.
- The following are available as optional specifications.
 - Air volume adjustment inverter specifications
 - heating device (electric heating, steam) HEPA filter specifications.

Model	Applicable booth	Supply & exhaust air volume m ³ /min	Air supply fan		Exhaust fan		Dimension (mm)			No. of air supply filters		
			Model	kW	Model	kW	A	B	C	Primary	Secondary	
											1000	500
VBC-15D	VB-15D	115	KF4.5	1.5	#3.5	3.7	1500	450	3150	4	1	1
VBC-20D	VB-20D	140	KF5.0	1.5	#4	3.7	2000	450	3150	4	2	-
VBC-25D	VB-25D	180	KF5.0	2.2	#4	5.5	2500	450	3150	4	2	1
VBC-30D	VB-30D	215	KF5.6	2.2	#4	5.5	3000	450	3150	4	3	-
VBC-40D	VB-40D	290	KF6.3	4	#4.5	11	4000	700	3400	4	4	-

BB Baffle Booth

Principle of the Collection Mechanism

The baffle plate acts as a primary filter that collides and collects the paint mist. Baffle plate surface is specially processed to enhance the collection efficiency, and because of the unique combination and arrangement of baffle plate, most of the paint mist will be collected here. Secondary filtration net will then filter and collect small paint mist that didn't stick to the baffle plate.



Suitable for users in the following situations:

- Since it doesn't use water, there is no need to concern about freezing.
- It is suitable for places that are unable to install piping or difficult to do wastewater treatment such as second floor of factory.

Features

Filter cleaning and replacement are more concise

The primary and secondary filters can be easily cleaned and replaced on the front of the spray booth.

Use a filter that will not clog

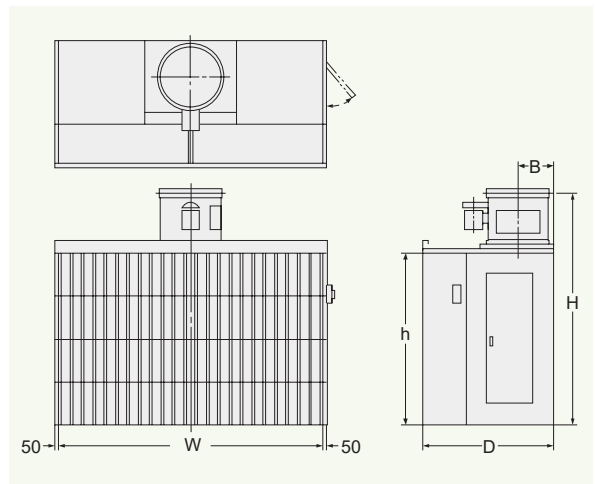
The plate adopts special processing to improve the collection efficiency, even if the paint adheres, it will not be clogged, and at the same time keep the suction wind speed stable.

Excellent collection efficiency

Adopting the dual filtration method of primary and secondary filters, the collection efficiency of paint waste residues are excellent: 97% for melamine paint, and lacquer paint reaches more than 92% (efficiency depends on the property of the paint).

Dimensions

Items	Model	BBDG-10D (mm)	BBDG-15D (mm)	BBDG-20D (mm)	BBDG-25D (mm)
Body	Width (W)	1000	1500	2000	2500
	Installation width (W)	1000	1500	2000	2500
	Depth (D)	1500			
	Ceiling height (h)	2000			
	Overall height (H)	2525			
Exhaust fan	B	425			
	Companion flange inner diameter ϕ	611			



※ The pressure loss of the exhaust duct should be 0.3hPa (3mmH₂O) or less.

Baffle Booth BB

Specifications

Items	Model		BBDG-10D	BBDG-15D	BBDG-20D	BBDG-25D	Remarks
Collection efficiency (%)	Melamine Paint		96 (Reference value)				-
	Lacquer Paint		92 (Reference value)				
	Acrylic Urethane Paint		88 (Reference value)				
	Polyurethane Paint		90 (Reference value)				
Noise level dB(A)	Front	1.5m	80	76	82		Depends on the installation environment and measurement conditions.
	Side		74	69	75		
Exhaust fan	Type		Axial fanφ600				Note that the air volume and speed will change depending on the filter clogging and duct shape.
	Air volume m ³ /min		84	122	170	198	
	Motor type		Enclosed fan 4P				
	Output	kW	1.5		2.2		
Baffle plate (pieces)			52	84	108	140	
Secondary filter (pieces)			8	12	16	20	
Operation switch			Motor breaker				
Body material			N-7.5(Gray)				
Mass	kg		295	319	356	380	
Accessories			Instruction manual				
Primary power supply (3-phase 200V) with breaker			10A		15A		

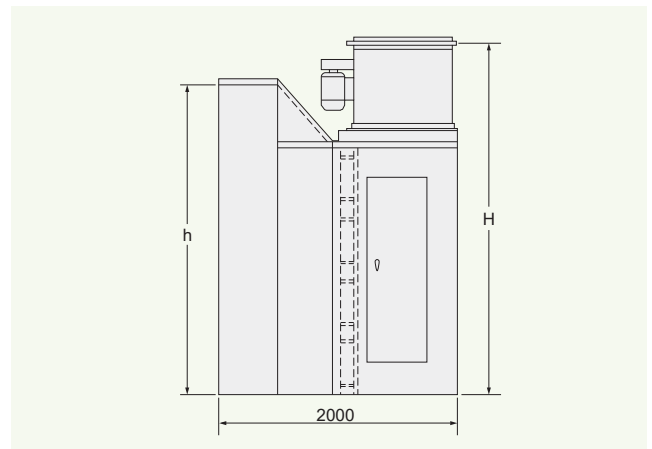
Spray Booth Option Model

● BBDG Model High Ceiling Specification

The height of the hood has been increased by 500mm, and the exhaust fan is also a standard specification.

Dimensions

Model	Body dimension (mm)	
	Hood height (h)	Overall height (H)
BBDG-10D	2500	2525
BBDG-15D		
BBDG-20D		
BBDG-25D		



Precautions

■ Type of paint that should not be used

Some types of paint may ignite spontaneously when paint mists adhere to and accumulate on the filter, baffle plate, etc.

- **Oil-based paint using boiled oil or linseed oil as solvent.**
- **Oxidized polymer paint**
Paint with a mixture of hardener, promoter, etc.

• Fast-drying polyurethane paint

Paint containing styrene to promote the drying process.

• Other types of paint that may ignite spontaneously

If you remove baffle plates smeared with such them piled up, the paint may ignite spontaneously. Submerge the plates in water immediately, and scrap them as industrial waste.

PLW-505

Automatic Water Supply System

Features

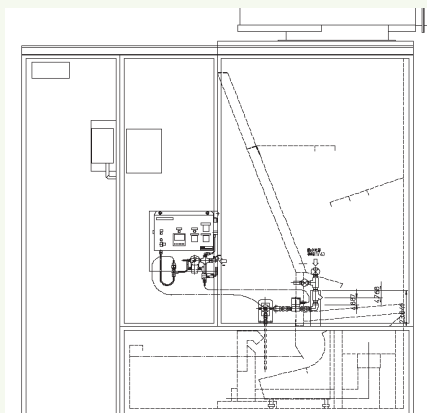
- Saves labor in water level management
- A constant water level keeps the booth performance good
- Can be installed in various painting booths
- No auxiliary water tank is needed, resulting in space savings
- Detect the upper and lower limits of the water level and control the ON/OFF of the water supply valve

Overview of automatic air supply system

● Basic principle

When a small amount of air is pushed out as air bubbles from the detection pipe inserted into the water, it needs to be related to the water level (insertion depth) proportional to the pressing force. The system detects this pressure (back pressure) with a high sensitivity sensor and operates an air pressure valve for water supply according to the water level so that the coating booth remain within a certain range.

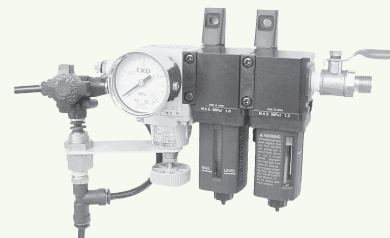
Venturi booth installation example



● Main specifications

- ① Power supply: AC200V
- ② Electric specs: Normal
- ③ Air pressure: 0.4 ~ 1Mpa
- ④ Air consumption: 5L/min or less

- Micro-pressure air purification unit



- Water level detection controller unit



Installation

● Precautions to fresh air inlet

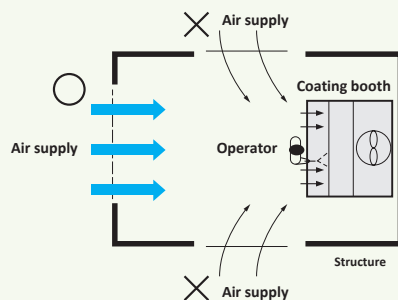
The spray booth discharges a large amount of air, so please be careful about the air supply.

A Supply air volume

Supply the same amount of air supply to the exhaust volume of the spray booth you are using.

B Air supply position

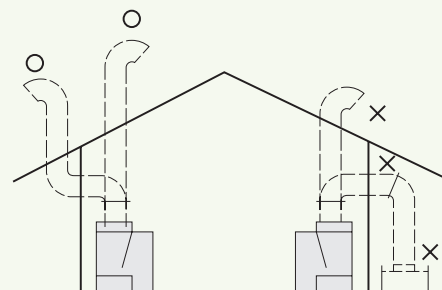
Provide an air supply port on the back of the worker and make the wind direction straight with respect to the spray booth.



● Precautions to exhaust duct position

A In order to minimize pressure loss, minimize the number of bends and secure a sufficient duct area.

B Do not bend at a right angle, and install it smoothly with a bend duct to minimize pressure loss.



Caution Primary power source capacity

Check the electric capacity and wiring thickness based on the specifications of the spray gun.



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