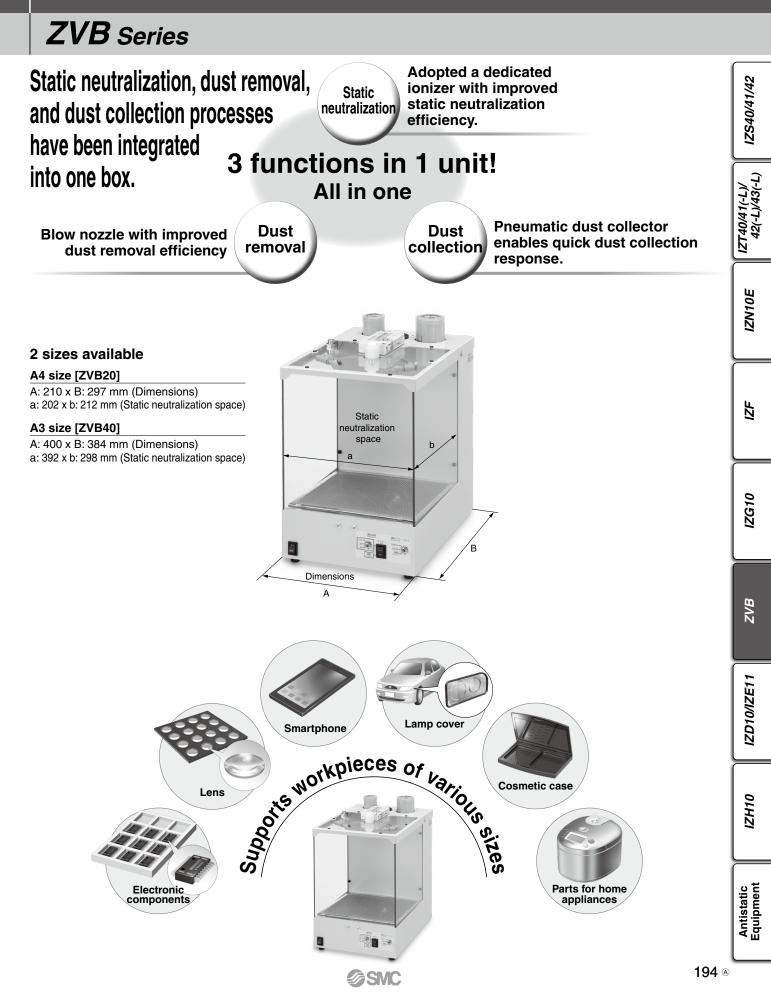
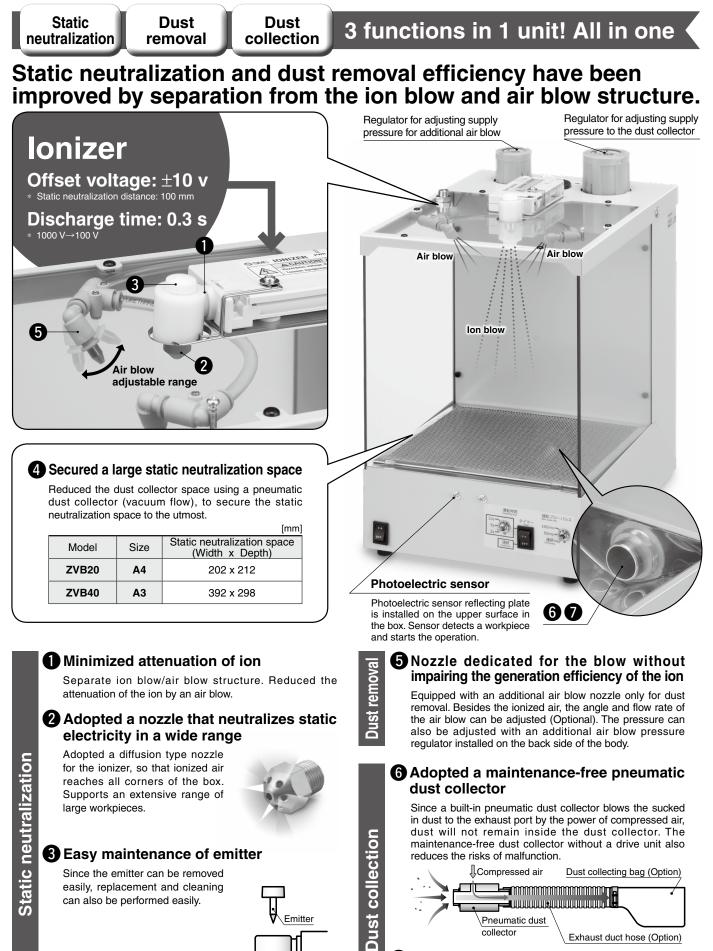
Desktop Duster Box







Since the emitter can be removed easily, replacement and cleaning can also be performed easily.

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The pneumatic dust collector starts collecting dust

immediately after the built-in solenoid valve is opened. Reduces the cycle time with a quick response, from the input of an electrical signal to the start of suction.

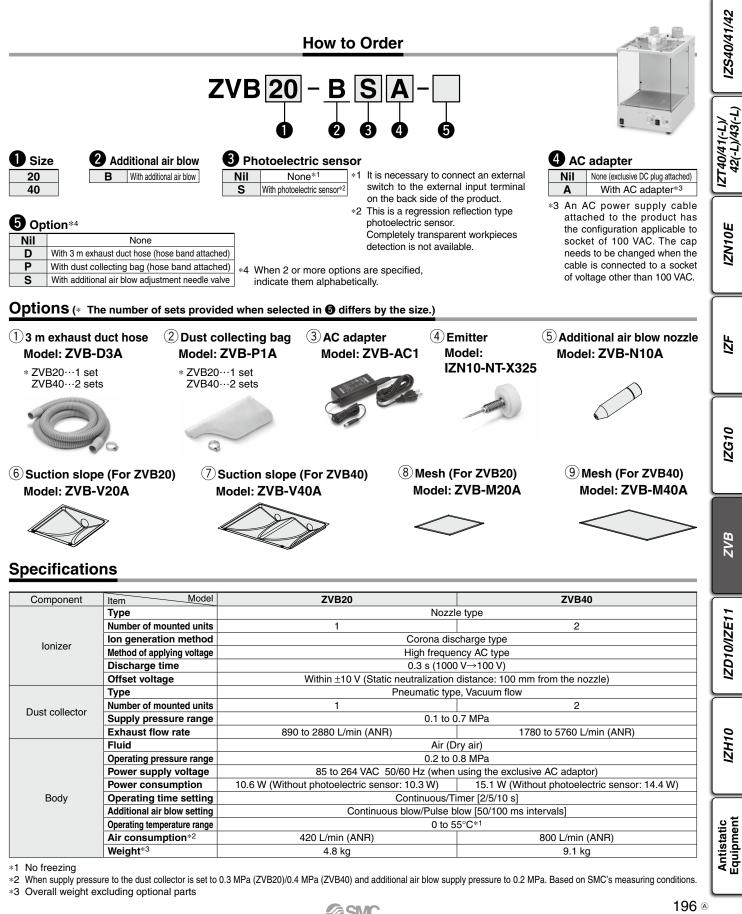
Pneumatic dust collector

Quick dust collection response

Exhaust duct hose (Option)

Desktop Duster Box ZVB Series

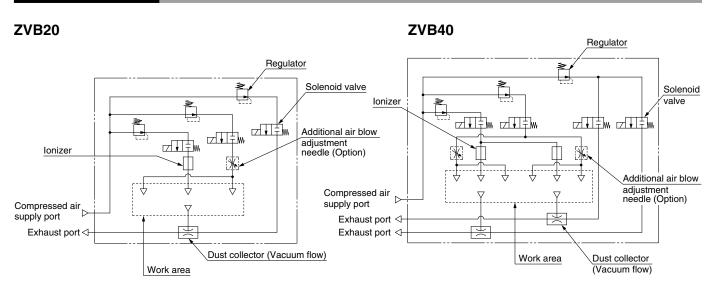






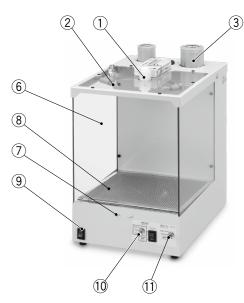
ZVB Series

Air Circuit Diagram



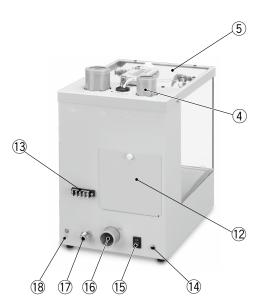
Construction

(Photo shows the ZVB20.)



Component Parts*

_					
No.	Description	Note			
1	lonizer	ZVB20: 1 unit, ZVB40: 2 units, With diffusion nozzle			
2	Additional air blow nozzle	ZVB20: 2 pcs., ZVB40: 4 pcs., Nozzle diameter: ø1.0			
3	Regulator for adjusting supply pressure to the dust collector	With pressure gauge			
4	Regulator for adjusting supply pressure for additional air blow	With pressure gauge			
5	Top cover assembly	Static electricity restriction grade (PET)			
6	Side cover	Static electricity restriction grade (PET)			
7	Photoelectric sensor	ZVB20: 1 pc., ZVB40: 2 pcs., Reflection type (built into the body)			
8	Mesh	Detachable			
9	Power supply switch				
10	Operation time set switch	Continuous/2 s/5 s/10 s			



No.	Description	Note			
11	Additional air blow pulse operation time set switch	Continuous (no pulse)/50 ms/100 ms			
12	Cover for valve maintenance	Used when replacing the built-in valve			
13	Terminal block	Moving signal output/External input/COM+/COM-*1			
14	AC adapter (DC plug) entry				
15	ON/OFF switch for dust collector				
16	Exhaust port of the dust collector	ZVB20: 1 port, ZVB40: 2 ports, Exhaust duct hose connection port(O.D.: ø3			
17	Compressed air supply port	ZVB20: ø8, ZVB40: ø10			
18	Grounding screw				

 *1 When starting operation via an external switch, make a connection by short-circuiting the external input terminal and the COM- terminal. Refer to the operation manual for details.

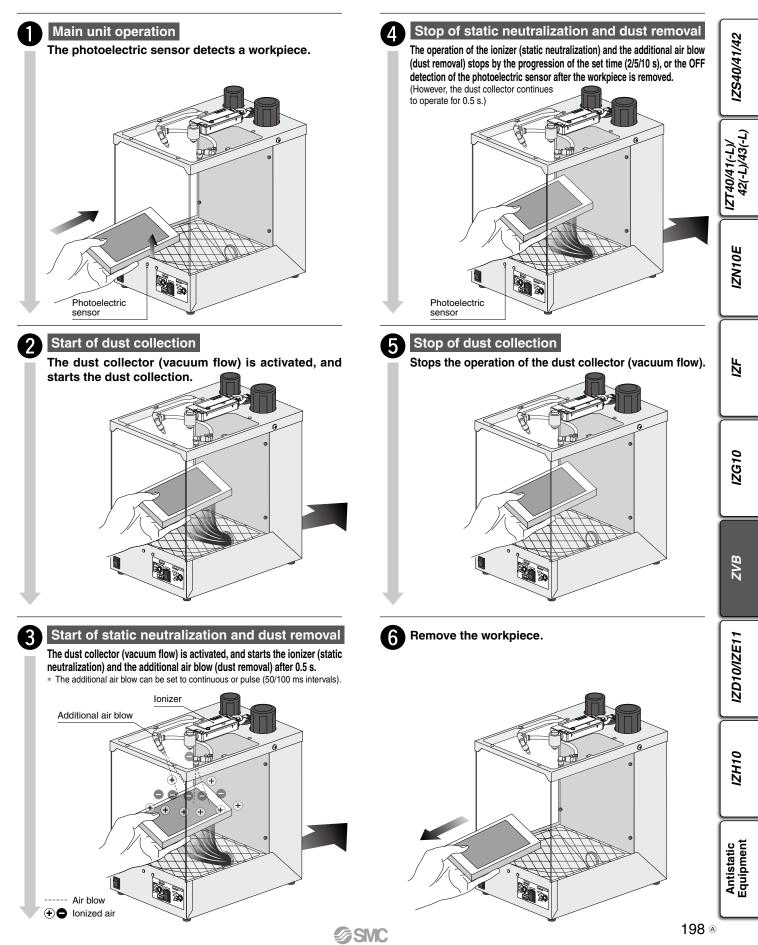
* Although the components are common to the ZVB20 and ZVB40, the number of attached parts differs. (Refer to the note column.)



Desktop Duster Box **ZVB** Series

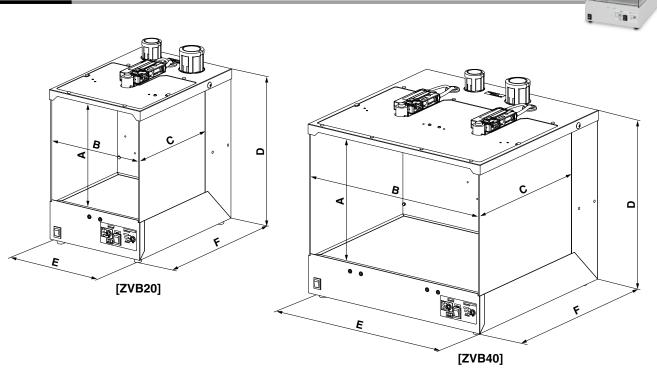
Operation Flow

The following shows the operating sequence during continuous operation and timer operation with the photoelectric sensor.



ZVB Series

Dimensions



Model	Α	В	С	D	D '*1	E	F	F '*2
ZVB20	211	202	212	310	351	210	297	339
ZVB40	248	392	298	349	390	400	384	426

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*1 Dimension D' is the overall height including the knob of the regulator.
*2 Dimension F' is the overall depth including the switch lever on the front and the exhaust port on the back.

Refer to the operation manual for detailed dimensions.



Be sure to read this before handling the products. Refer to page 227 for safety instructions.

Installation / Mounting

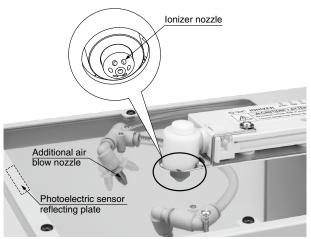
\land Warning

1. Avoid using in a place where noise (electromagnetic wave and surge) is generated.

It may cause failure or damage to the product. Take measures to prevent noise at source and avoid power and signal lines from coming into close contact.

2. Do not allow foreign matter, workpiece, or tool to enter the ionizer nozzle.

There is an emitter inside the nozzle. If the emitter gets in contact with metallic workpieces or tools, an electric shock may cause an injury. If emitter is damaged, it may interfere with the specified function and performance, and may also cause operation failure or accident.



(In addition to the ionizer nozzle, the additional air blow nozzle and photoelectric sensor reflecting plate are installed on the upper surface in the box. Avoid these items being in a collision with a workpiece.)

3. When the dust collector is operating, air is discharged vigorously from the exhaust port.

Prevent exhausted air from contacting people or objects. Piping (I.D. 32 mm) or dust collecting bag must be connected to the exhaust port.

Wiring / Piping

A Warning

1. Power supply required to the product is 24 VDC and 1 A. When power is supplied to the product without using the exclusive AC adapter, make sure to use a stabilization power supply and connect wiring to the DC plug that is provided with the product as an accessory.

2. D-class ground connection must be used to the product.

Without grounding, the product will not provide the designed performance.

- 3. For air piping, please use SMC or equivalent tubing of diameter 8 mm (for ZVB20) or 10 mm (for ZVB40). It is strongly recommended to use clean dry air (with a dew point at approx. -20°C).
- 4. Air connections should only be made with the pressure supply turned OFF.

Flush the system before piping to prevent foreign matter from entering inside the product.

Operating Environment

\land Warning

- 1. Operate in an environment in the specified ambient temperature and fluid temperature ranges (0 to 55°C). Avoid sudden temperature changes even within specified temperature range, as it may cause condensation.
- 2. Do not use this product in an enclosed space. This product utilizes the corona discharge phenomenon. Although the amount is very small, ozone and nitrogen oxides are generated. Ozone condensation can increase if used in an enclosed space, which can affect the human body, so ventilation is necessary.

3. Effects on implantable medical devices

The electromagnetic waves emitted from this product may interfere with implantable medical devices such as cardiac pacemakers and cardioverter defibrillators, resulting in the malfunction of the medical device or other adverse effects. Please exercise extreme caution when operating equipment which may have an adverse effect on your implantable medical device. Be sure to thoroughly read the precautions stated in the catalog, operation manual, etc., of your implantable medical device, or contact the manufacturer directly for further details on what types of equipment need to be avoided.

Maintenance

\land Warning

1. Perform maintenance regularly and clean the emitters (every 2 weeks suggested).

The maintenance must be performed by an operator who has sufficient knowledge and experience. If the ionizer is used for a long time and there is dust on the emitters, performance of the product will be reduced. When the NDL LED (maintenance signal LED) is ON, the emitter will need to be cleaned. If the emitter gets worn and static neutralization ability does not recover even after cleaning, replace the emitter. (Emitter part no.: IZN10-NT-X325)

2. Before starting inspection, cleaning or replacing the emitter, or replacing the valves, be sure to turn OFF the power and air supply to the main body to prevent electric shocks or accidents.



▲ Caution

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1. Do not drop, hit, or apply excessive shock to the product.

Even if the body is not damaged, the internal components may be damaged, leading to a malfunction.

IZS40/41/42

IZT40/41(-L)/ 42(-L)/43(-L)

ZN10E

N

IZG10

ZVB

IZD10/IZE1