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# Bench Top Ionizer Cleaning Box High-frequency AC Method

Related Information

General terms and conditions...... F-3

■ Selection guide ......P.1155~

■ Glossary of terms......P.1591

■ General precautions ...... P.1595



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PARTICULAR USE SENSORS SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASUREMENT SENSORS

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LASER MARKERS

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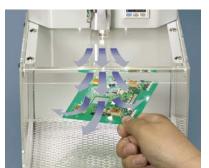
UV CURING SYSTEMS

Selection Guide Static Pulse Air-gun

ЕС-В

## Three discharge modes

The EC-B features two pulse air modes in addition to the standard continuous mode.



#### White LED illumination

Compact dust collection and removal features

Three white LEDs illuminate the work area, increasing visibility and helping ensure you don't overlook any dust that has adhered to workpieces.

panasonic.net/id/pidsx/global

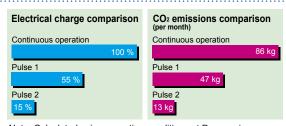
#### **Dust collecting fan**

A powerful dust collecting fan exhausts dust quickly, preventing re-adhesion of dust.





#### Economic and ecological benefits of pulse (intermittent) air



Note: Calculated using operating conditions at Panasonic Industrial Devices SUNX's Head Office Plant, 8 hours per day × 20 days

- · Dust removal and charge removal by intermittent air
- Possible to control dust removal time in timer mode
- External input allows the tool to be used in conjunction with other equipment such as a foot switch

#### ORDER GUIDE

Туре	Charge removal time $(\pm 1,000 \text{ V} \rightarrow \pm 100 \text{ V})$	Ion balance	Model No.
200 mm 7.874 in width type	0.5 (N-4-)	140 V I	EC-B01-EX
400 mm 15.748 in width type	0.5 sec. approx or less (Note)	±10 V or less	EC-B02-EX

Note: Typical value at 100 mm 3.937 in from the front of air outlet at an applied air pressure of 0.50 MPa.

#### **OPTIONS**

Туре	Model No.		Description	
Dust flance	EC-BD50	For ø50 mm ø1.969 in duct flange	A flange that connects a duct hose for air	
Duct flange	EC-BD76	For ø76 mm ø2.992 in duct flange	exhaust to the <b>EC-B</b> main body	
Air filter	EC-BFX3	For EC-B01-EX	Depletement filter (2 nec. ner est)	
Air liitei	EC-B2FX3	For EC-B02-EX	Replacement filter (3 pcs. per set)	
Spot nozzle	EC-BAS	Exclusive nozzle for EC-B02-EX	lonized air can be collected around the center. (2 pcs. per set)	

### **SPECIFICATIONS**

	Туре	200 mm 7.874 in width type	400 mm 15.748 in width type	
Item I	Model No.	EC-B01-EX	EC-B02-EX	
CE marking directive	compliance	EMC Directive, RoHS Directive		
Charge removal tin (±1,000 V → ±100		0.5 sec. approx. or less (Note 2)		
Ion balance		±10 V or less		
Applicable fluid		Air (dried clean air)		
Supplied air flow	Max. 300 ℓ/min. (ANR) or less		Max. 500 ℓ/min. (ANR) or less	
Air pressure range		0.05 to 0.50 MPa		
Power supply volta	ge	Accessory AC adapter (Note 3) INPUT: 100-240 V AC ±10 % 50/60 Hz (OUTPUT: 24 V DC)		
Power consumption	n	80 VA or less	90 VA or less	
Dust removal opera	ation	Photocoupler output / Universal  • Max sink current: 100 mA  • Residual voltage: 2.5 V or less (at sink current of 100 mA or less)		
Output o	operation	During dust removal operation: ON, during standby: OFF		
External input		0 V short-circuit: Input received		
Timer mode		2 sec. / 5 sec. / 10 sec. / synchronized with sensor or with external input selectable by switch		
Pulse air mode		Pulse 1 (long) / Pulse 2 (short) / OFF (continuous) selectable by switch		
Ambient temperatu	ire	0 to +40 °C +32 to +104 °F		
Ambient humidity		35 % to 65 % RH (No dew condensation)		
Enclosure earthing	method	C (capacitor) earth		
Net weight		Main body: 6.5 kg approx.	Main body: 13 kg approx.	
Accessories		AC adapter: 1pc., Filter: 1pc., Protective mesh: 1pc.		

Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +20 °C +68 °F.

2) Typical value at 100 mm 3.937 in from the front of air outlet at an applied air pressure of 0.50 MPa.

3) Please prepare an AC cable separately as it is needed. The following cables are available as optionals: CN-ACCN-C2: AC cable (conforming to CCC), CN-ACKR-C2: AC cable (conforming to KTL)

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PRESSURE / FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS PARTICULAR USE SENSORS

SENSOR

SENSOR OPTIONS

WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASURE-MENT SENSORS

STATIC CONTROL DEVICES

LASER MARKERS

PLC

HUMAN MACHINE INTERFACES

ENERGY MANAGEMENT SOLUTIONS

FA COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

> Selection Guide Static Removers

Cleaning Box Electrostatic Sensor

EC-B

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LASER SENSORS

PHOTO-ELECTRIC SENSORS AREA SENSORS

COMPONENTS PRESSURE / SENSORS INDUCTIVE PROXIMITY SENSORS

PARTICULAR SENSORS SENSOR OPTIONS

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MEASURE MENT SENSORS

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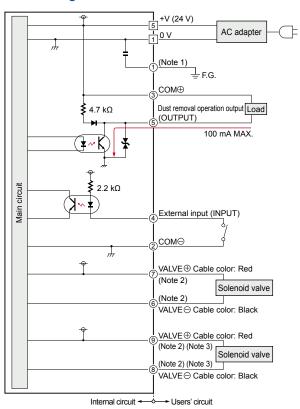
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Static Removers Pulse Air-gun

ЕС-В

#### I/O CIRCUIT DIAGRAMS

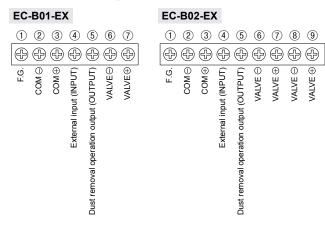
#### I/O circuit diagram



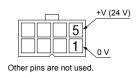
Notes: 1) The F.G. terminal has continuity with the enclosure.

- 2) This terminal is for the solenoid valve only. Do not connect any line to it other than the power supply line for the solenoid valve.
- 3) The EC-B01-EX has 7 terminals, and the EC-B02-EX has 9

#### Terminal block diagram



#### Pin layout for AC adapter power supply connector



#### PRECAUTIONS FOR PROPER USE

Refer to p.1595 for general precautions.

- Never use this product in a device for personnel protection.
- In case of using devices for personnel protection, use products which meet laws or standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.
- Do not use this product in places where there may be a danger of flammable or combustible items being present.
- · When carrying, hold the bottom of the main unit from both sides. Do not hold the transparent antistatic cover or damage may occur.



- High voltages are applied to the discharge needle, so never touch the discharge needle while the power for the product is turned on, otherwise electric shocks may result.
- · Be sure to ground the main body of this product via ground terminal to ensure electric shock prevention and reliable charge removal.
- · Since the tip of the discharge needle is pointed, take sufficient care in handling the discharge needle, or injuries may result.
- The cut edges of the protective mesh are sharp, so be very careful when handling the mesh, otherwise injury may occur.
- Turn off the power and air before carrying out any maintenance or cleaning. Make sure that the supply of air has been fully shut off and that all pressures at the product and inside the tubes are at zero before continuing. If this is not done, air pressure may cause operating problems or accidents.
- This product detects the air supply status.
- If air is not being supplied to the product, or if the pressure of air being supplied is 0.6 MPa or higher, the product will treat this as an error condition, and dust removal operation will not be carried out when an object (electrostatically-charged object) is inserted.
- Do not change the pressure sensor settings. If the settings are changed, this product may cease to operate correctly.

### DIMENSIONS (Unit: mm in)

The CAD data can be downloaded from our website.

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SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING

MEASURE-MENT SENSORS

STATIC CONTROL DEVICES

LASER MARKERS

PLC

HUMAN MACHINE INTERFACES ENERGY

FA COMPONENTS

MACHINE VISION SYSTEMS

CURING SYSTEM:

Selection Guide

Pulse Air-gun Cleaning Box

ЕС-В

