

**Ionizing Air Gun + High Voltage Power Supply**

**P/N: 445D+446**

The 445D Ionizing Air Gun is used for removing static charge and dust of the inaccessible charged object. It can easily clean the parts and prevent it from being attached again after removing static charge.

**Features**

- Compact design for easy operation
- Rapidly neutralizes static charges
- Built-in regulator of remnant voltage for effective ion balancing
- Two ionizing Air Guns can be connected with High Voltage Power Supply model 446 at the same time

**Specifications**

Input Voltage : 220VAC/50Hz  
 Secondary Output Voltage : 4.0 KVAC (0 ~ -40%)  
 Power Consumption : 20 Watt  
 Dimensions of Power Supply : 165 x 103 x 115mm (approx.)  
 Weight of Power Supply : 3.8 Kg (approx.)  
 External Air requirement : 0.1 ~ 0.7MPa (Dry & Clean)  
 Effective Distance : within 1000mm  
 Discharge Time : 0.4S (Test Distance: 15cm)  
 Weight of Air Gun (approx.) : 370 grams  
 Standard length of Cable : 3 meter



Model 445D  
Ionizing Air Gun



Model 446  
High Voltage Power Supply

Pressure	Air Flow	Decay Time	Noise
0.2MPa	0.06m <sup>3</sup> /min	1.2s	≤71dB
0.4MPa	0.12m <sup>3</sup> /min	0.6s	≤88dB
0.6MPa	0.18m <sup>3</sup> /min	0.4s	≤95dB
0.7MPa	0.20m <sup>3</sup> /min	0.3s	≤98dB

Note: Testing distance 15 cm from the outlet of the air gun

**Stainless Steel Body Static Charge Eliminator**

**P/N: 440D**

- Compact size, light weight, portable design with adjustable angle
- Rapidly neutralizes static charges
- Adjustable fan speed can generate large range of ion stream
- Stable ion balancing
- Long lifetime magnetic transformer protect the unit from short circuit
- Built-in emitter cleaner for easy cleaning
- Stainless steel housing, ideally suitable for clean room applications

**Specifications**

Power consumption : 30 Watt  
 Output Voltage : 506 KVAC  
 Ion Balance : ±10V  
 Air Volume : ≤2.4m<sup>3</sup>/min  
 Effective range : 400 x 1500mm  
 Ozone production : ≤0.03ppm (150mm from centre of air outlet)  
 Noise : 45dB  
 Dimensions & Weight : 140x84x220mm & 2.4 Kg (approx.)

**Stainless Steel body  
for Cleanroom  
applications**



Warranty is 12 months from the date of our invoice. It excludes any mechanically damaged part.

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# Low Voltage Nozzle type Static Charge Eliminator



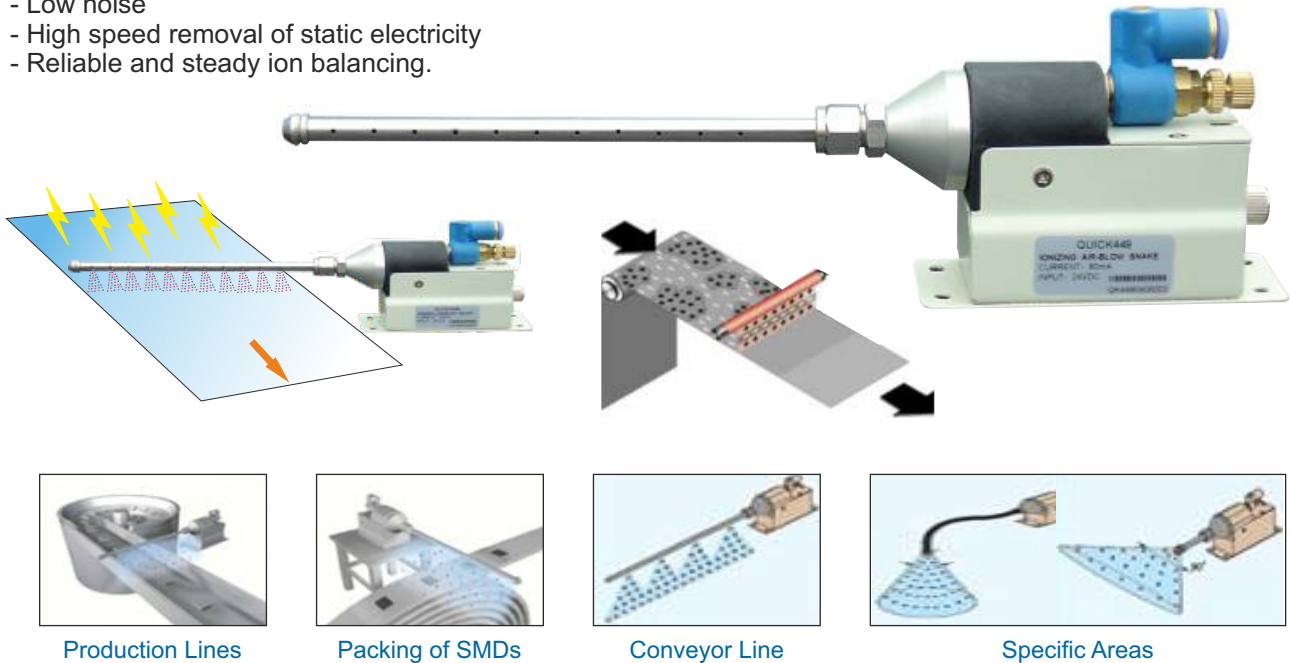
P/N: 449

This Static Charge Eliminator works with low voltage power supply which makes it safe to use very close to the components. The ions are produced by high-frequency voltage in large quantity and high density so that the ions do not disappear during long travelling in the tube.

Voltage produced by the High Voltage Power Supply for inside of the discharge needle, gives-off alternating current corona discharge toward connection plug to produce positive and negative ions. These ions are transported out by external air pressure. The ionized air flow neutralizes the static electricity of charged objects, removes dust stuck with the charged objects and protects the same from being stuck again.

### Characteristic:

- It can transfer ionized air by using the air tube in addition to air blowing directly through the nozzle.
- Low noise
- High speed removal of static electricity
- Reliable and steady ion balancing.



### Specifications

Mode of Producing ions	: Corona discharge with high frequency voltage
Input Voltage	: 24V DC
Capacity	: 2.4VA
Output Voltage	: 2.0KV AC / about 68KHz
Abnormal Output Circuit	: Collector open circuited
Ozone Generation	: 0.05ppm: (measured at distance of 50mm)
Ion Balance	: within $\pm 15$ Volt
External Air requirement	: 0.02 ~ 0.4MPa
Dimension (approx.)	: 104L×35W×57H (mm)
Weight (approx.)	: 210 grams

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## Stainless Steel Body Static Charge Eliminator

P/N: ESDSET28

- Compact size, light weight, portable design with adjustable angle
- Rapidly neutralizes static charges
- Adjustable fan speed can generate large range of ion stream
- Stable ion balancing
- Long lifetime magnetic transformer protect the unit from short circuit
- Built-in emitter cleaner for easy cleaning
- Stainless steel housing, ideally suitable for clean room applications

### Specifications

Power consumption	: 30 Watt
Output Voltage	: 5.6 KVAC
Ion Balance	: $\pm 10V$
Air Volume	: $\leq 2.4m^3/min$
Effective range	: 400 x 1500mm
Ozone production	: $\leq 0.03ppm$ (150mm from centre of air outlet)
Noise	: 45dB
Dimensions	: 140x84x220mm (approx.)
Weight	: 2.4 Kg (approx.)

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## Compact & Portable DC type Static Charge Eliminator

P/N: 443A

- Compact size, light weight, portable design with adjustable angle
- Rapidly neutralizes static charges
- Adjustable fan speed can generate large range of ion stream
- Stable ion balancing
- Long lifetime magnetic transformer protect the unit from short circuit
- Built-in emitter cleaner for easy cleaning
- Easy cleaning of Filter Mesh as it is fixed with magnet

### Specifications

Power consumption	: 15 Watt
Output Voltage	: DC $\pm 5000V$
Ion Balance	: $\leq \pm 10V$
Air Volume	: $\leq 2.4m^3/min$
Effective range	: 400 x 1500mm
Ozone production	: $\leq 0.03ppm$ (150mm from centre of air outlet)
Noise	: 45dB
Dimensions	: 135x190x75mm (approx.)
Weight	: 1.25 Kg (approx.)



Model 442-3 is a portable overhead ionized air blower that produces an air flow rich in positive and negative ions. Directing this air flow on an object that has a static electricity charge, will neutralizes the charge. It uses 3 fans to produce air flow. Air flow volume is controlled by variable speed control. The ionizer features a patented balancing circuit.



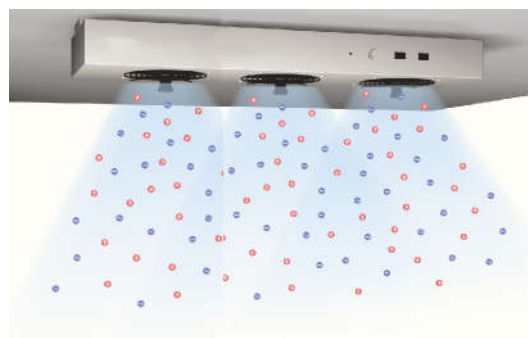
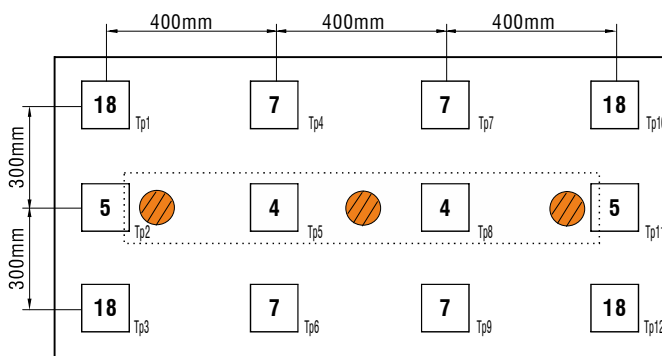
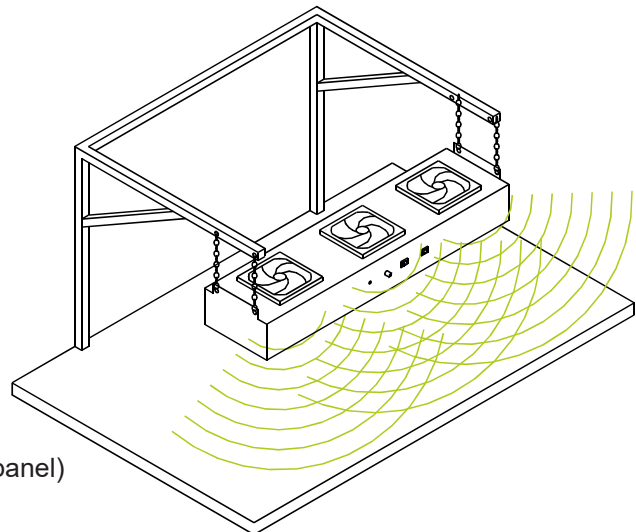
**Model: 442-3**

**Features:**

- Rapidly neutralizes static charges
- Ionization indicator lamp
- Covers large area with ionized air
- Variable speed fan with wide range of air flow
- Integrated task lights (2x9 watt twin tube)
- Inherently balanced ion output
- Durable, electrically grounded metal enclosure

**Specifications:**

- Power Consumption : 80 Watt
- Output Voltage : 5.6 KV AC
- Ion Balance : Adjusted within  $\pm 15V$  before delivery (450mm from panel)
- Air Volume :  $\leq 1.2 - 2.4 \text{ m}^3/\text{min}$
- Ozone Production :  $\leq 0.03 \text{ ppm}$  or below (150mm from centre of air outlet)
- Effective Range : 600 x 1600 mm
- Dimensions (LxWxH) : 1086 x 170 x 90 mm (approx.)
- Weight : approx 9 Kg



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