

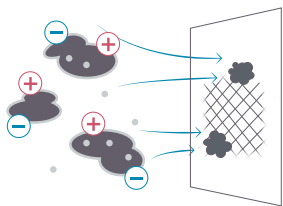
The Bipolar Ionizer cleans the air by introducing positive and negative ions into the space through the fan coil airflow. It is safe, ozone free, easy-to-install and low maintenance.

**Partnered with a MERV 8 filter**, the bipolar ionizer is a highly effective neutralizer.

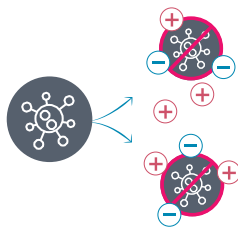


## How It Works

The needlepoint brush-type ionizer produces a high concentration of positive and negative ions, delivering them to the space through the air stream. Within the air stream, ions attach to particles, causing the particles to become larger and more easily filtered from the air. When ions encounter pathogens, they disrupt the pathogens' surface proteins, rendering them inactive.



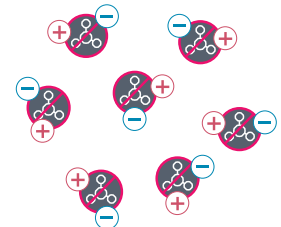
Airborne particles are charged by the ions causing them to cluster and be caught in filters



As they divide to reproduce, bacteria and virus cells bond with oxygen ions and are destroyed/neutralized



Odorous gases and aerosols oxidize on contact with oxygen ions and are neutralized



Oxygen ions cause a chemical reaction with VOCs breaking down their molecular structure

## Market Applications



Higher  
Education



K-12  
Education



Hospitality



Multi-family  
Residential



Office



Healthcare

# Bipolar Ionizer

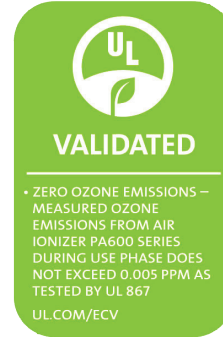
The needlepoint brush-type ionizer producing an equal amount of positive and negative ions neutralizing harmful pollutants and odors. The unit is installed at the fan inlet of fan coil units and is self-contained in a potted ABS box with a molded flange and mounting holes. The 602 model accepts 24V AC without the use of an external power supply device. The unit is protected with an inline 500mA glass cartridge fuse. Each ionization unit is capable of ionizing a supply airflow of 2,400 CFM.

## Product Availability

The Bipolar Ionizer is available for the following IEC product families:

- Horizontal Ceiling
- Horizontal & Vertical Hi-Performance
- Vertical Floor\*
- Vertical Stack (Mod)\*
- Direct Drive Blower Coil
- Belt Drive Blower Coil

\*not available for Stud (STW, STY) and Vertical Stack Ditto MAY/MBY units



**PART NUMBERS**

**G100-71542101**  
Bipolar Ionizer

**F158-90031539**  
Mounting Bracket

Contact Aftermarket Parts Department to verify proper wiring and control sequence if Bipolar Ionizer is not ordered with a unit. Additional parts may be required for proper function.

## SPECIFICATIONS:

Airflow Capacity:	2,400 CFM
Pressure Drop:	Less than 0.01 In. WG
Housing Material:	ABS
Weight:	0.2 lbs.
Maximum Operating Temperature:	200° F (93°C)
Electrical:	
Voltage:	24V AC (602)
Power Consumption:	Less than 1 watt
Frequency:	50/60 hertz
Over Current Protection:	500mA Glass Cartridge Fuse
Lead Wires	50"(L)

## Ionization Output:

Mode of Operation	Needlepoint Type
Needle Configuration:	Brush Type

## DIMENSIONS: See Figure 1

## APPROVALS:

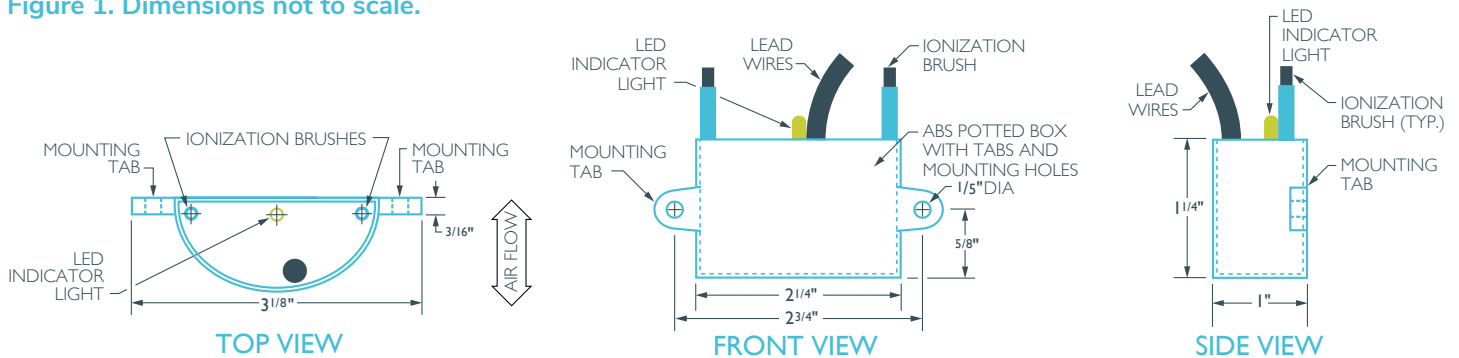
Intertek/ETL tested in accordance with:

- UL 867: Electrostatic Air Cleaners
- UL 2043: Fire Test for Heat and Visible Smoke

UL Validated:

- 2998: Zero Ozone Emissions

Figure 1. Dimensions not to scale.



IEC Part Number: I100-90034480  
FL-420 (11/2020)

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