



MANUAL – INSTALLATION + OPERATION

Bipolar Ionization

BPI-24V

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PRICE[®]

BIPOLAR IONIZATION

INSTALLATION & MOUNTING INSTRUCTIONS

Introduction

The BPI-24V is a needlepoint brush type ionizer producing an equal amount of positive and negative ions. This ionization equipment is effective in reducing harmful pollutants and odors by introducing positive and negative ions into the system airflow. This unit is highly versatile as it may be installed in a variety of Price Industries products, including fan powered units, single duct units, and the RAP. The BPI-24V is self contained in a potted enclosure which has molded flanges with mounting holes. Model is available to accept 24V AC without the use of an external power supply.

Electrical Installation Instructions

WARNING ▼

Do not connect to power before installation is complete. Always disconnect power to the ionizer before handling.

1. All field wiring to be in accordance with NEC and Authorities Having Jurisdiction (AHJ).
2. Connect power to the ionizer using appropriate voltage for BPI-24V (24V AC). See figure 3.
3. For best results, ionizer is interlocked with fan power.
4. Apply power to unit. Confirm that green indicator light illuminates indicating that the ionizer is functioning properly.

Operation

1. When power is supplied to the ionizer, the ionizer will be activated and the green ion indicator light will illuminate.
2. The ionization unit is self balancing and does not require any type of adjustment.

Mechanical Installation Instructions

General Mounting Criteria

1. Do not connect to power before mechanical installation is complete.
2. Mount ionization unit to allow access for general maintenance.
3. Mount the unit at or near the fan inlet using the holes in the mounting flanges, ensuring that the air stream flows over the 2 brushes simultaneously. See figures 1 & 2.
4. The unit should be mounted downstream of a filter.

FIGURE 1 ▼

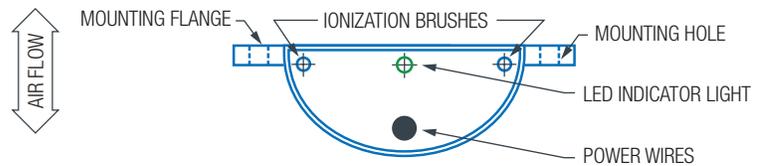


FIGURE 2 ▼

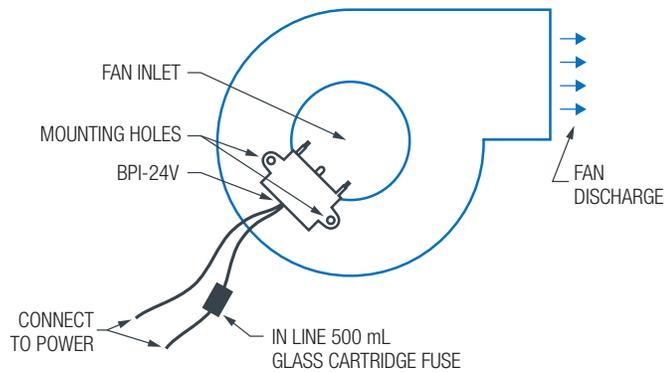
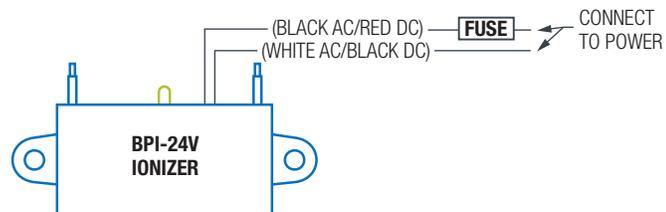


FIGURE 3 ▼



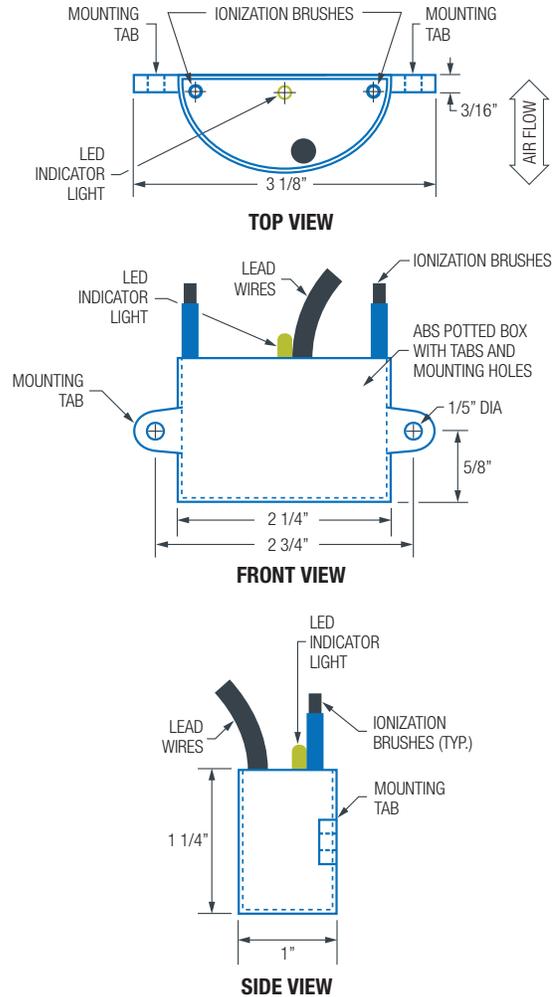
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Specifications

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 Input	24V AC
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 ▼



Approvals

Intertek/ETL Standard UL 867

Troubleshooting

If the unit is not working, check the following:

1. The supply fan is running and that the green light illuminates.
2. Check the power input connections to the ionization unit. Verify all connections are correct and tightened. Reconnect any loose wires as necessary.

Sequence Of Operation

When interlocked with the fan supply control, the BAS controls the start stop of the supply fan and bipolar ionizer. When supplied as stand alone for a ducted system, the bipolar ionizer is typically on.