INSTALLATION, OPERATION & MAINTENANCE MANUAL

PLASMA AIR MODEL 600

REV 06/16

PLASMA AIR
INTERNATIONAL

www.plasma-air.com

INTRODUCTION

The Plasma Air Model PA600 is a needle point 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 an air handling unit, fan coil unit, PTAC, heat pump and even a ductless split system. The model PA600 is self contained in a potted ABS box which has molded flanges with mounting holes. Models are available to accept 12V DC, 24V AC, 120V AC and 230V AC without the use of an external power supply device.

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, insuring that the airstream flows over the 2 brushes simultaneously. See figures 1& 2.
4. The unit should be mounted downstream of the filter.
5. For best results avoid locations directly after a cooling coil or humidifier.

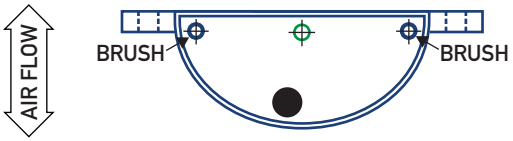

FIGURE 1

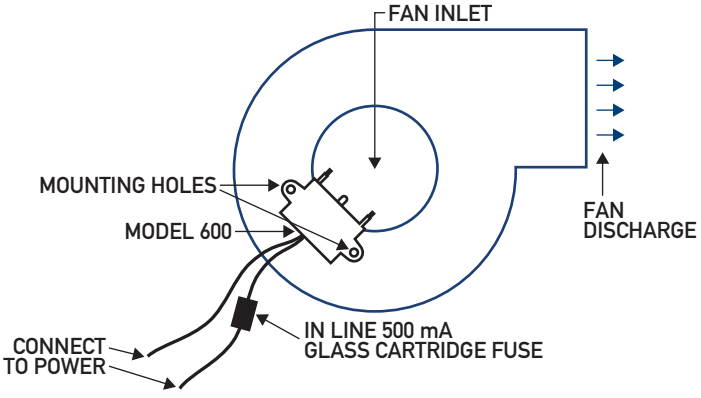

FIGURE 2

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ELECTRICAL INSTALLATION INSTRUCTIONS

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

1. All field wiring to be in accordance with NEC and Authorities Having Jurisdiction (AHJ).
2. Connect power to ionizer using appropriate voltage per the following. See figure 3.
   601=12V DC 602=24V AC 603=120V AC 604=230V AC
3. For 120V AC and 230V AC models the installer shall provide a grounding method per the local AHJ.
4. For best results interlock ionizer with fan relay.
5. Apply power to unit. Confirm that green indicator light illuminates indicating that the ionizer is functioning properly.

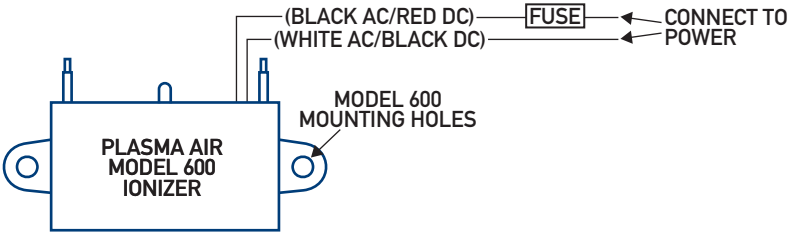

FIGURE 3

OPERATION

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

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

1. For units that are interlocked with the supply fan control, the BAS controls the start/stop of the air conditioning unit supply fan.

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INSTALLATION INSTRUCTIONS FOR OPTIONAL DRY CONTACTS

The model 600 has an option to include dry contacts which will indicate ionizer functionality to a BAS (Building Automation System).The 660 series ionizers include these dry contacts.

The model 660=model 600+dry contacts.

1. All field wiring to be in accordance with NEC and Authorities Having Jurisdiction (AHJ).
2. Connect power to ionizer using appropriate voltage per the following. See figure 4.
   661=12V DC 662=24V AC 663=120V AC 664=230V AC
3. For 120V AC and 230V AC models the installer shall provide a grounding method per the local AHJ.
4. For best results interlock ionizer with fan relay.
5. Apply power to unit. Confirm that green indicator light illuminates and that the dry contacts indicate that the ionizer is functioning properly.

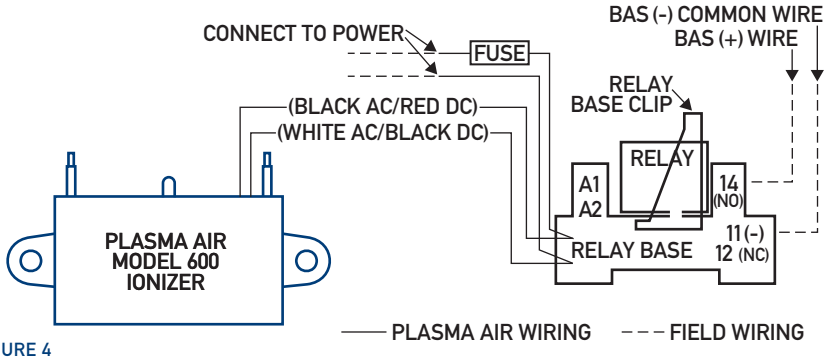

FIGURE 4

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