SELF-CLEANING & NO MAINTENANCE

The PlasmaPURE AutoClean 1500 is a self-cleaning needlepoint ionizer that produces positive and negative ions that neutralize harmful pollutants and odors in the home. This compact self-cleaning unit automatically removes dust and dirt build-up on the needles eliminating the need for maintenance. It can be easily mounted at the fan inlet of almost any air handling system including residential air conditioners, furnaces, mini-splits, fan coil units and VRF systems. The AutoClean 1500 is self-contained in a plastic enclosure which has molded tabs with mounting holes. Unit accepts 12V DC or 24V 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 for future access.

3. Mount the unit at or near the fan inlet using the slots in the mounting tabs, insuring that the air flows over the two recessed needlepoint electrodes simultaneously. Short sheet metal screws should be used to mount the ionizer to the fan casing. See Figures 1 & 2.

4. The unit should be mounted downstream of the filter.

5. For best results avoid locations directly downstream of a cooling coil or humidifier.

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**FIGURE 1**

![Air Flow](image1)

**FIGURE 2**

![Fan Inlet with Mounting Tabs](image2)
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 the National Electric Code and authorities having jurisdiction.

2. Connect power to ionizer using appropriate voltage per the following: 12V DC or 24V AC. See Figure 3.

3. Connect power wires to power inlet fitting by pressing the orange tab firmly, inserting the appropriate wire, then releasing the orange tab. Repeat as necessary for the other wires. Strip wire insulation as necessary.

4. For best results interlock ionizer power with fan relay.

5. Apply power to the unit. Confirm that the green LED indicator light illuminates indicating that the ionizer is functioning properly.

OPERATION

1. When power is supplied to the ionizer, the ionizer will be activated. The green ion indicator light will illuminate.

2. The ionization unit is self-balancing and does not require any type of adjustment.

3. Self-cleaning frequency is factory set at once-per-day. To change this frequency, contact Plasma Air for factory programming.

TROUBLESHOOTING

If the unit is not working, check the following:

1. The supply fan is running, and that the green LED illuminates.

2. Check the power input connections to the ionization unit. Verify all connections are correct and tightened. Reconnect any loose wires as necessary.