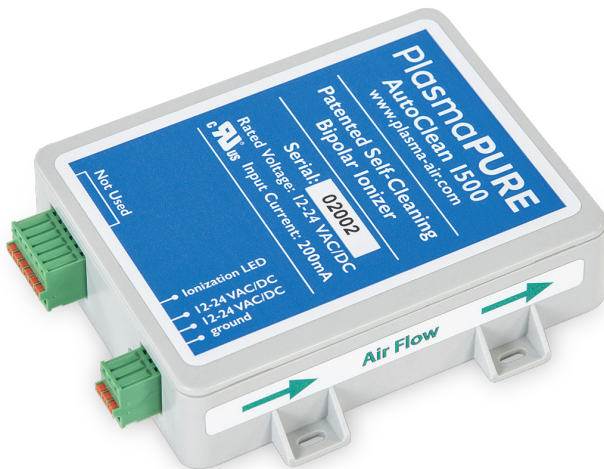




INSTALLATION, OPERATION & MAINTENANCE MANUAL

PlasmaPURE AutoClean 1500

05/2021



www.plasma-air.com

SELF-CLEANING & NO MAINTENANCE

The PlasmaPURE AutoClean 1500 is a self-cleaning, maintenance-free needlepoint ionizer that produces positive and negative ions that neutralize harmful pollutants, odors and pathogens (mold spores, bacteria and viruses). 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 AC Units, furnaces, mini-splits, fan coil units and VRF systems. The AutoClean 1500 is self-contained in an ABS enclosure which has molded tabs with mounting slots. Unit accepts 12V DC or 24V AC without the use of an external power supply.

MECHANICAL INSTALLATION INSTRUCTIONS

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 air flows over the two needlepoint electrodes simultaneously. Short sheet metal screws should be used to mount the ionizer to the fan casing to avoid interference with the fan blades. 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.

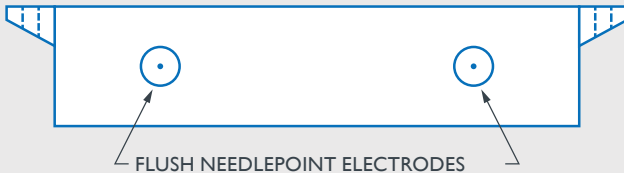


FIGURE 1

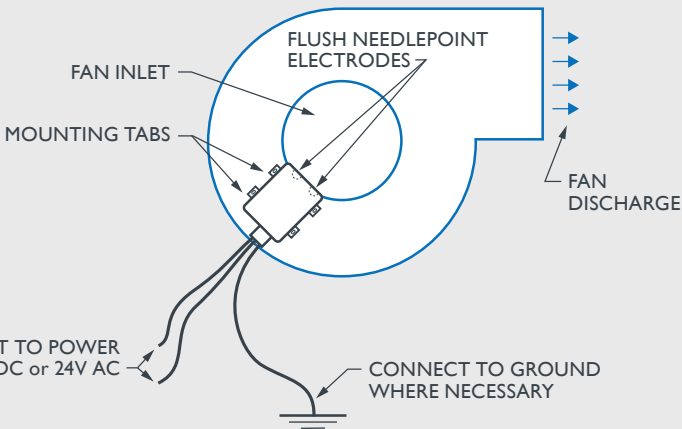


FIGURE 2

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 either 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 control circuit.
5. Apply power to the unit. The LED indicator will be green when power is applied to the ionizer, but then turns orange when functioning properly.

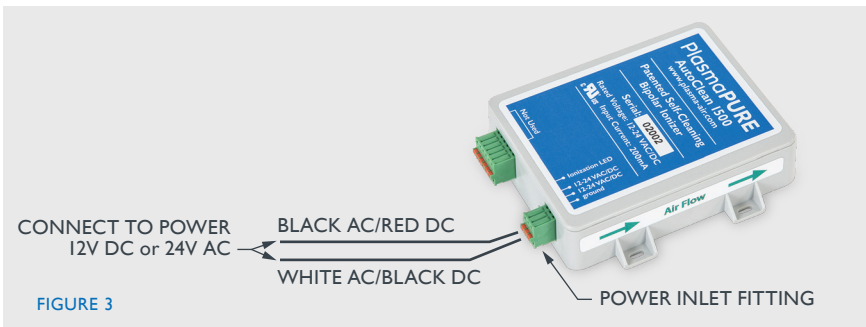


FIGURE 3

OPERATION

1. When power is applied to the unit, the ionizer will be activated. The LED will be green for several seconds indicating power has been applied to the ionizer.
2. The green LED turns orange indicating the unit is in operation mode and ions are being produced.
3. Two minutes after initial startup, the LED changes back to green and the first cleaning cycle is automatically initiated. After the cleaning cycle, the LED returns to orange indicating proper operation.
4. The cleaning cycle will repeat every 24 hours if unit operates continuously. If fan doesn't run continuously, steps 1 through 3 will repeat once the fan is energized.

TROUBLESHOOTING

If the unit is not operating, check the following:

1. Verify that all power connections are correct and tight. Reconnect any loose wires as necessary.
2. Verify that the supply fan is running to initiate operation, and that the orange LED illuminates. If the LED is green, and cleaning cycle is not active (wait a few minutes), contact Plasma Air for further support.



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