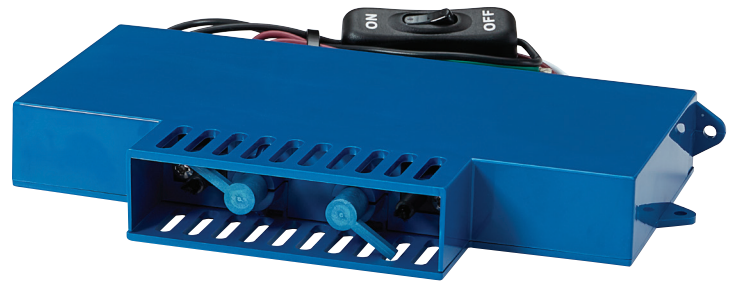


Installation, Operation & Maintenance Manual

GPS-FC24-AC



www.globalplasmasolutions.com

Thank you for purchasing a GPS-FC24-AC from Global Plasma Solutions. The GPS-FC24-AC is an autocleaning air purifier that can be mounted in mini split ceiling cassettes, wall mounted ducted air handlers, and other HVAC equipment that requires a compact design. The included magnets allow for installation without cutting or drilling. The GPS-FC24-AC requires no maintenance or periodic replacement parts.

Hardware Provided by GPS

Before you start, confirm the contents of your shipment. Each GPS-FC24-AC will consist of the following

1. GPS-FC24-AC with in line power switch.
2. Rare earth magnets (2).
3. Machine screws and nuts (2 each) for mounting magnets.

Hardware by Others

1. Electrical wiring, junction box, or receptacle to provide power to the GPS-FC24-AC.
2. Self-tapping screws (optional) if not using magnet mount.
3. Zip ties.

Installation Location

GPS recommends mounting the GPS-FC24-AC after the prefilter and before the cooling coil, on the blower housing on the side opposite the motor. In ductless mini-split ceiling cassette applications, it is suggested to mount the unit to the fan inlet. The emitter brushes should be no closer than two inches from any wiring or metal objects.

Mechanical Installation

1. Ensure power to the HVAC equipment and the circuit the GPS-FC24-AC will be connected to has been turned off.
2. Find an appropriate location. Verify the carbon fiber emitters have a 2" clearance from wires or other metal objects.
3. Mount the magnets to the GPS-FC24-AC using included hardware. See FIGURE 1.
4. When mounting in a ceiling cassette use zip ties to secure GPS-FC24-AC to fan inlet screen or grid. NOTE: if mounting in a ceiling cassette that has a self cleaning filter, the unit must be mounted behind the screen and self cleaning system, but before the fan inlet.
5. Install the GPS-FC24-AC so that airflow is passing by both emitters at the same time (like a football through goalposts). Make sure the unit is positioned so it obstructs as little airflow as possible.



Figure 1



Wiring

1. Confirm the power is off prior to wiring. Follow all local and national electrical and building codes.
2. GPS recommends the GPS-FC24 be powered constantly and NOT switched with the system or blower.
3. The GPS-FC24-AC will self-adjust to voltages from 24VAC to 240VAC. Output and performance will not be effected by the choice of input voltage. Connect the power wires as follows:

Brown - 24 - 240VAC
Blue - Neutral or L2
Green/Yellow - Ground
White - Dry Contacts/BAS Alarm

4. Wire in BAS terminals (optional) The GPS-FC24-AC is equipped with a set of dry contacts that are normally open and close when the GPS-FC24-AC is on and has no faults. The contacts are rated up to 250VAC and 1A.

Operation



CAUTION! NEVER TOUCH BRUSHES WHILE OPERATING, SHOCK MAY OCCUR

Once powered and the inline switch is in the on position, the unit initiates an internal check of all systems. If the auto cleaning wiper blade is not in the "home" position, it will move to the home position in series with the airflow.

Cleaning Cycle

The GPS-FC24-AC comes with a preset cleaning cycle designed to clean the brushes every three days. The cleaning process may be activated by pushing the clean button located on the side of the unit. To change the cycle frequency, press the cleaning cycle button once. While cleaning is in progress press and hold the cleaning cycle button for 5 seconds. The LED will start flashing. Pressing the cleaning cycle button again will change the days between cleaning. The number of flashes indicates the cleaning interval in days (3 flashes=3 days, 5 flashes=5 days).

Troubleshooting

1. Unit will not power up, LED not illuminated:
 - a. Confirm proper voltage is applied to the correct terminal(s).
 - a. Try an alternate power source. If using 24v try using 230v or vice versa.
2. Wiper sticks or stops on emitters:
 - a. Adjust height of emitters: loosen screw at base of emitter gently push or pull emitter to a height where wiper just contacts emitter. Hold the emitter in place and tighten screw. Verify correct height after tightening screw.
3. Wiper does not clean/ contact emitters:
 - a. Adjust height of emitters: loosen screw at base of emitter gently push or pull emitter to a height where wiper just contacts emitter. Hold the emitter in place and tighten screw. Verify correct height after tightening screw.
 - b. If the emitter is worn to the point where there is no adjustment, replacement emitters can be ordered from GPS. Remove the screw and the emitter base, unplug the emitter from the connector. Plug the new emitter in, reinstall base, adjust emitter height and tighten screw.
4. If unit does not operate properly after verifying the above instructions please contact GPS for additional assistance.



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