

# Installation, Operation & Maintenance Manual

# PF-i™



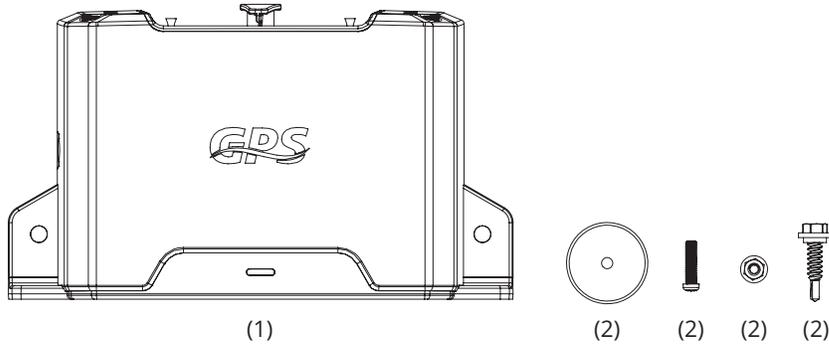
NOTICE: This product is to be used only as directed. Read entire manual before use. Do not use unless properly installed.

Thank you for purchasing a PF-i™ air ionization system from GPS Air.

### *What's Included*

Before you start, confirm the contents of your shipment. Each PF-i will consist of the following:

1. PF-i Filter Enhancement System (1)
2. Rare earth magnets (2)
3. Machine screws and nuts (2 each) for mounting magnets
4. Self drilling sheet metal screws (2)



As part of the installation process, a Startup Document should be completed. For the latest version of the document, visit our website or utilize the QR code.



### *Installation Location*

Install the PF-i a minimum of 1' from the filter rack. For best results install the PF-i 3' or further from the filter rack. See the application guidance document for more information.

**NOTE:** Use temperature - Maximum temperature in which the unit shall be installed: 140°F/60°C.



**WARNING:** Make sure power is disconnected to the HVAC equipment before installation.

### Step 1.

- Ensure power to HVAC equipment as well as the PF-i has been disconnected. Follow all local and national electrical and building codes.

GPS recommends the PF-i is powered constantly and NOT switched with the system or blower.

The PF-i will self adjust to voltages from 24V to 240VAC. Output and performance will not be affected by choice of input voltage.

### Step 2. Mount the PF-i

1. Find the appropriate location to install the PF-i. Verify the carbon filter emitters have a 2" clearance from wires or other metal objects.
2. Mount the magnets to the PF-i using included hardware. See figure 1 and figure 2.
3. Ensure the direction of airflow matches the airflow indicator on the PF-i.

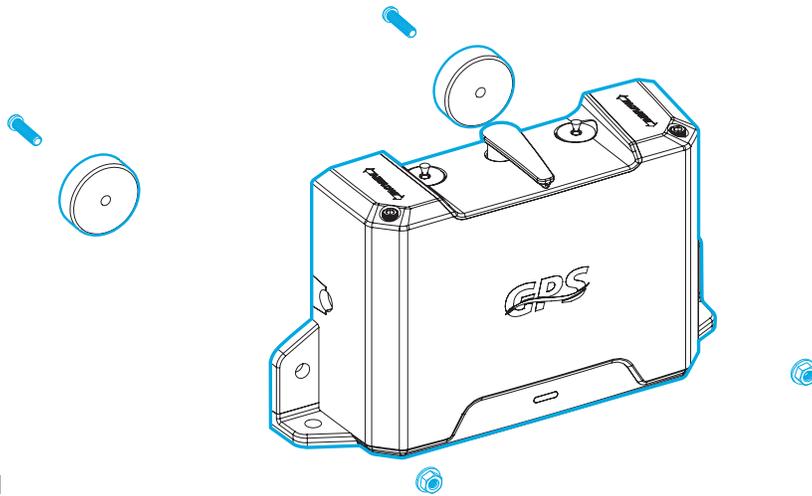


Figure 1

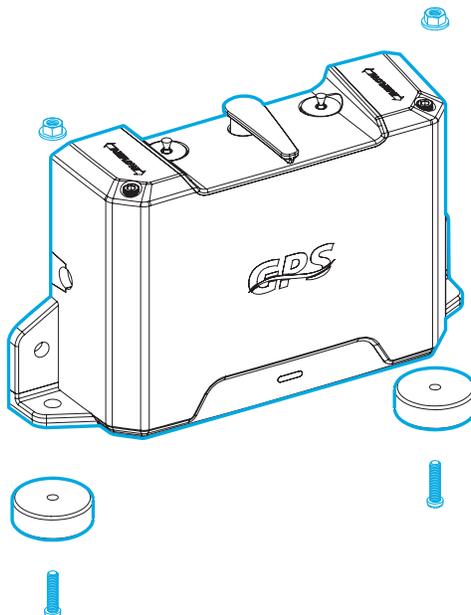


Figure 2



**Step 2** (continued)

3. If there is not a ferrous material available to attract the magnet use the self drilling sheet metal screws and securely attach the surface. See figure 3 and figure 4.

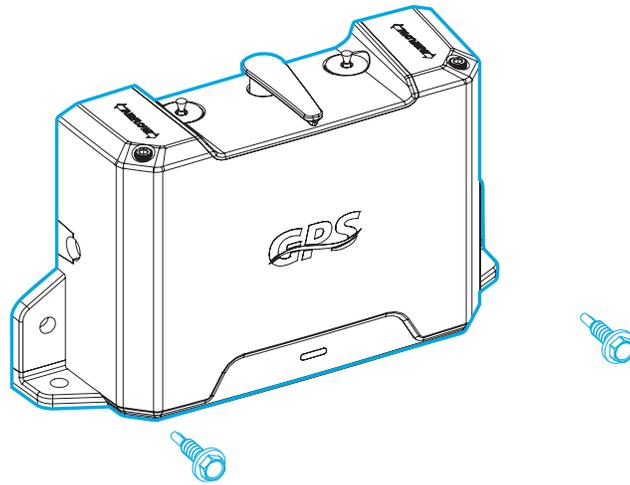


Figure 3

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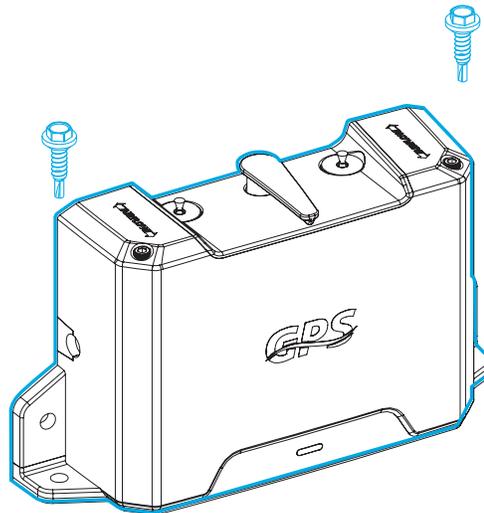


Figure 4

## Wiring

1. Confirm the power is off prior to wiring. Follow all local and national electrical and building codes.
2. GPS recommends the PF-i be powered constantly and NOT switched with the system or blower.
3. The PF-i will self-adjust to voltages from 24VAC to 240VAC. Output and performance will not be effected by choice of input voltage. Connect the power wires as follows:
  - Black 24 - 240VAC
  - White Neutral or L2
  - Green Ground
  - Brown Dry Contacts/BAS terminals
4. Wire in BAS terminals (optional). The PF-i is equipped with dry contacts that are normally open and closed when the PF-i 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.

## Cleaning Cycle

The PF-i comes with a preset cleaning cycle designed to clean the brushes every 4 hours

 **CAUTION!** High Voltage.

 **CAUTION!** This product is suitable for mounting to duct of metallic construction only. Installation must be such that the structural integrity of the ducting is not compromised.

 **CAUTION!** Risk Of Electric Shock. Can Cause Injury Or Death: Disconnect All Remote Electric Power Supplies Before Servicing. To Avoid Risk of Fire and Shock, Use Only Flexible conduit.

**NOTE:** The health aspects associated with the use of this product and its ability to aid in disinfection of environmental air have not been investigated by UL LLC.

## Troubleshooting

Unit will not power up, no indicator light

- a. Confirm proper voltage is applied to the correct terminal(s).
- b. Remove power, wait 1 minute, and reapply power.
- c. If no light is still displayed, try an alternate power source. If using 24v try using 120v or vice versa.

If the unit does not operate properly after verifying the above instructions contact GPS for additional assistance.

## Product Registration

By registering your order, the standard limited warranty on eligible products from your purchase is automatically extended to 3 years, at no additional cost.

Register your products at [www.gpsair.com/product-registration](http://www.gpsair.com/product-registration) or scan the QR code.

The information provided in this manual is up to date at the time of printing. Any revisions to this document will supersede the content included. For the latest applicable version of this manual, visit our website or utilize the QR code below.



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