

Start-up Checklist

GPS-FC48™-AC

Complete 1 Checklist Per Ionizer

EQUIPMENT + INSTALLER DATA

MODEL VERIFICATION

- 1. Record Manufacturer: GPS
- 2. Record Model Number: GPS-FC48-AC
- 3. Record Serial Number of Ionizer:

INSTALLATION DATA

- 5. Record Name of Installer:
- 6. Record Date of Installation/Startup:
- 7. Record Device ID Unit is Installed In/On:
- 8. Record Incoming Power Level:
- 9. Record Voltage Output at GPS-FC48-AC Emitters:
- 10. Confirm Installation Type: AHU Blower Inlet Ducted Split System Other:

INSTALLATION

MECHANICAL MOUNT | Magnet Installation

Mounting on ferrous surfaces subject to low levels of vibration (if using fasteners, skip to next section)

- 1. Confirm the included magnets are firmly attached using the provided fasteners
- 2. Confirm the GPS-FC48-AC is to be installed downstream of all filters in the system
- 3. Confirm the GPS-FC48-AC is installed such that air passes over the emitters as indicated on the product
- 4. Confirm that airflow over the emitters is not obscured/restricted - see the IOM for details
- 5. Confirm the GPS-FC48-AC is secure

MECHANICAL MOUNT | Fastener Installation

For non-ferrous surfaces or those where significant levels of vibration may be experienced

- 1. Confirm the GPS-FC48-AC is installed downstream of all filters in the system
- 2. Confirm appropriate fasteners (e.g. self-tapping sheet metal screws) are used to secure the GPS-FC48-AC to the appropriate surface
- 3. Confirm the GPS-FC48-AC is installed such that air passes over the emitters as indicated on the product
- 4. Confirm that airflow over the emitters is not obscured/restricted - see the IOM for details

ELECTRICAL INSTALLATION

- 1. Confirm incoming power to the GPS-FC48-AC is one of the following: 24VAC 110VAC 240VAC
- 2. Confirm the electrical connections on the GPS-FC48-AC are wired in accordance with the installation manual
- 3. Confirm the electrical supply is terminated in an appropriate fashion at the supply end and all local and national electrical and building codes are complied with
- 4. Use a soft cloth with isopropyl alcohol to wipe debris off the GPS-FC48-AC emitters
- 5. Allow any residual alcohol to evaporate off the emitters prior to turning the ionizer on for the first time

STARTUP

UNIT STARTUP

- 1. Power on the GPS-FC48-AC using the in-line switch
- 2. Confirm the GPS-FC48-AC is continuously powered and not configured to cycle with the HVAC duty
- 3. Once powered on, confirm the power LED is illuminated
- 4. Confirm the cleaning cycle frequency is set to 1 day in accordance with the method detailed in the IOM
- 5. Measure the voltage at the GPS-FC48-AC emitters (both polarities) and confirm it is above the minimum target level of 3kV
- 6. Visually confirm there is no duct or dirt on the carbon fiber emitters after they were cleaned with isopropyl alcohol during installation
- 7. With the GPS-FC48-AC operational, verify ion density output. Confirm it meets the combined polarity target of 400M ions/cc using the AIC2 ion meter ions/cc for each polarity measured 1" away with air handler fan off (no airflow)
- 8. Confirm the final configuration is securely attached to the appropriate surface, and operational in accordance with the installation manual

For instructions on how to measure emitter voltage, scan the QR code.



For the latest applicable version of the GPS-FC48-AC installation manual, visit www.gpsair.com/downloads or scan the QR code.



Register your products at www.gpsair.com/product-registration or scan the QR code.

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

