

## Start-up Checklist

# DM-2™

Complete 1 Checklist Per Ionizer

### EQUIPMENT + INSTALLER DATA

#### MODEL VERIFICATION

- 1. Record Manufacturer: GPS
- 2. Record Model Number: DM-2
- 3. Record Serial Number of Ionizer:
- 4. Accessories: DM-S (Saddle)  Yes  No  
PS-2 (Power Supply)  Yes  No

#### INSTALLATION DATA

- 5. Record Name of Install Company and Technician:
- 6. Record Date of Installation/Startup:
- 7. Record ID of nearest HVAC system component :
- 8. Record Incoming Power Level:
- 9. Record Voltage Output at DM-2 Emitters:

### INSTALLATION

#### MECHANICAL MOUNT | Standard Installation

*Mounting ring for flat wall (if using DM-S, skip to next section)*

- 1. Confirm the DM-2 is installed downstream of all filters in the system
- 2. Confirm a 4" hole was cut into the wall where the product is installed
- 3. Confirm the mounting ring was oriented correctly using the bubble level prior to attaching it with fasteners
- 4. Confirm the mounting ring is secure

**MECHANICAL MOUNT | Optional Installation*****DM-S Saddle For Round Duct***

- 1. Confirm the DM-2 is to be installed downstream of all filters in the system
- 2. Confirm a 4.5" hole was cut into the duct where the product is installed
- 3. If using clamps/ties:
  - A. Confirm appropriately sized cable ties or band clamps were selected and installed in the saddle eyelets
  - B. Confirm the clamps/ties are secured such that saddle bends to conform to the diameter of the duct
  - C. Confirm the saddle is fitted such that the foam on the saddle is compressed and the assembly feels secure
- 4. If using fasteners:
  - A. Confirm the #6x1" self-piercing sheetmetal screws are used to secure the saddle
  - B. Confirm the the minimum of 8 fasteners are used
  - C. Confirm the saddle is fitted such that the foam on the saddle is compressed and the assembly feels secure

**ELECTRICAL INSTALLATION**

- 1. After removing the top housing, confirm the electrical wires are routed through the appropriate conduit (see below) and the conduit is secured to the DM-2 main housing:
  - A. If in a plenum space, confirm that the conduit is metallic and from the DXUZ,7 UL category
  - B. For other applications if desired, confirm the non-metallic conduit is from the DWTT,7 UL category
- 2. Confirm the electrical connections are routed and wired in accordance with the installation manual
- 3. Confirm the electrical wires are secured by the strain relief within the main housing and the terminal connections are also secure
- 4. Confirm the top housing is reattached and secured by the four provided fasteners
- 5. 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
- 6. Use a soft cloth with isopropyl alcohol to wipe debris off the DM-2 emitters
- 7. 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 DM-2
- 2. Confirm the DM-2 is continuously powered and not configured to cycle with the HVAC duty
- 3. Once powered on, confirm the green power LED is illuminated
- 4. Measure the voltage at the DM-2 emitters (both polarities) and confirm it is above the minimum target level of 3kV
- 5. Visually confirm there is no dust or dirt on the carbon fiber emitters after they were cleaned with isopropyl alcohol during installation
- 6. With the DM-2 operational, verify ion density output. Confirm it meets the combined polarity target of 200M ions/cc using the AIC2 ion meter ions/cc for each polarity measured 1" away with air handler fan off (no airflow)
- 7. Confirm the DM-2 unit is securely attached to the mounting ring or saddle 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 DM-2 installation manual, visit [www.gpsair.com/downloads](http://www.gpsair.com/downloads) or scan the QR code.



Register your products at [www.gpsair.com/product-registration](http://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.

