

## **INSTALLATION AND OPERATION OF ELECTRO-BALANCE<sup>TM</sup> EB-150 RADIAL BATTERY POWERED DAMPER SYSTEM**

Please read completely before installing this equipment.

**RECEIPT INSPECTION:** Check material received against packing list. Claims resulting from factory errors must be made within 2 weeks after receipt of goods.

### **INSTALLATION**

1. EB-150 radial dampers are furnished as one piece and undersized ¼” from nominal dimensions. Prior to installation check to make sure that wiring and connector have not been damaged in shipment.
2. Secure damper in position in the duct by using screws or rivets in the openings in the bearing bracket sides—minimum 1 screw per side. Preferred installation method is via #10 speed screws. Do not rack or distort damper.
3. **Prior to closing the ceiling, TEST the unit to verify smooth damper operation and system connectivity:**
  - a. Connect the EB-150 damper connector to the hand held remote control using the grey male-to-male connector cable supplied with the remote.
  - b. Turn on the remote using the slide switch on the side of the housing. The green on/off LED will illuminate.
  - c. Operate the rocker switch on the remote control to ensure smooth damper operation through the open/close cycle. Right toggle opens the damper, left toggle closes the damper.
    - i. **If the LED array on the remote control flashes red then green, connectivity has been broken.** Check for sliced wiring or a loose connection at the motor. NOTE: If wiring or connectors are damaged in the field, they can be replaced quickly. Contact your sales rep for replacement components.
    - ii. If the remote control turns the EB-150 damper off prior to the damper reaching a full open or full closed position, check to make sure that the damper is mounted properly and that there is no interference in the radial blade path.
4. When ready, route the wiring down the duct work and through the diffuser or grille. Excess wiring can be bundled using the wire tie provided. Locate and install the connector clip if you will be using it.

### **OPERATION:**

Dampers are adjusted by connecting the grey male-to-male wire tether (supplied with the remote) to the hand held remote control and the damper motor connector. Turn on the remote using the slide switch on the side of the housing. The green on/off LED will illuminate. Press the rocker switch on the remote control to operate the damper. Right toggle opens the damper, left toggle closes the damper. The LED array will indicate approximate blade position. To use this feature, the damper must first be set to a full open or closed position. Then as you operate the remote, the LEDs will light up in sequence. There are 10 LEDs. If five are lit, the damper is 50% open. The on/off LED will flash to indicate low battery condition. The remote will continue to operate the damper but battery replacement will be needed soon. The Duracell 9V battery can be replaced by removing the battery cover on the back of the remote housing. It is not necessary to remove the belt clip to replace the battery. After balancing is complete, snap the connector into the cable clip or push the connector up behind the diffuser / grille face