



DUAL ROOM DAMPER PACKAGE INSTALLATION INSTRUCTIONS

Before beginning installation process, first determine which room will be designated as **Room 1** (the “off” room when there is no power to the timer) and which room will be designated as **Room 2**.

1. Place the **Bottom Return Air Plenum** in the unit's desired location and set the Indoor Air Handler on top of it. Then, place the **Top Supply Air Plenum** on top of the Indoor Air Handler and fasten it down using metal screws or strong adhesive tape.
2. Install the motorized Dampers onto both the **Bottom Return Air Plenum** and the **Top Supply Air Plenum**, making sure to fasten them with screws or adhesive tape. Do not push on Damper flaps, as this can damage the motor's sensitive gear teeth. Mount motors on top of Damper, not below.
3. Open the front panel of the Indoor Air Handler. Take the included **Relay Assembly** from its sealed package (in Damper box) and remove blue plug-in relay from sub-base by unlocking the Orange Clip from the **Relay Assembly**. Using the provided screw, mount the sub-base to the inside of the Indoor Air Handler cabinet, close to the **Control Wire Terminal Strip**.
4. Each Wire on the **Relay Assembly** is labelled. Connect the loose ends of the **Air Handler R (Red) Wire**, **Air Handler G (Green) Wire**, and **Air Handler C (White) Wire** to the corresponding **Air Handler R Terminal**, **Air Handler G Terminal**, and **Air Handler C Terminal** by screwing them into the **Air Handler Control Wire Terminal Strip**.
5. Using the supplied 20' roll of Two-Wire Control Wire, cut and strip individual lengths that will run from each motorized Damper to the mounted **Relay Assembly**. Connect the **White Wire** to the **Orange Wire** on the Damper using the Push-On Connector, then connect the remaining **Black Wire** to the **Yellow Wire**. Repeat this step for all remaining Dampers.
6. Take the opposite end of the Two-Wire Control Wire from each Damper and attach the **White Wire** to the Push-On Connector labeled **Damper Commons (White)** at the **Relay Assembly**.
7. With the **White Wires** now connected to the **Relay Assembly**, take the remaining **Black Wires** from **Room 1** and attach them to the Orange Push-On Connector, labeled **Dampers Room 1 (Black)** at the **Relay Assembly**.

Repeat this step for **Room 2**, but instead attached to the Orange Push-On Connector labeled **Dampers 2 (Black)**.

8. Connecting the Thermostat Wires
 - A. Connect **Red Wire** from **Thermostat 1** to Yellow Push-On Connector labeled **Thermostat 1 (Red)** at **Relay Assembly**.
 - B. Connect **White Wire** from **Thermostat 1** to Push-On Connector labeled **Damper Commons (White)** at **Relay Assembly**.
(Previously used in Step 6.)
 - C. Connect **Green Wire** from **Thermostat 1** to Push-On Connector labeled **Thermostat 1 (Green)** at **Relay Assembly**.
 - D. Connect **Black Wire** from **Thermostat 1** to Screw-Down Terminal **Y** on **Air Handler Control Wire Terminal Strip**.
 - E. Connect **Orange Wire** from **Thermostat 1** to Screw-Down Terminal **W1** on **Air Handler Control Wire Terminal Strip**.
 - F. Connect **Red Wire** from **Thermostat 2** to Yellow Push-On Connector labeled **Thermostat 2 (Red)** at **Relay Assembly**.
 - G. To continue setting up for **Room 2**, repeat steps B. through E. for remaining Wires from **Thermostat 2**.
9. Plug the **Relay Assembly** into the sub-base, making sure that the diagram picture is facing the Orange Clip so that it will lock securely. Then, plug the **120 V Flip Timer** plug into the timer (not included). Installation process is now complete.

For more information, please visit:

www.excelairsystems.com/dual-room-damper-package-1

DUAL ROOM DAMPER PACKAGE SCHEMATIC INSTALLATION DIAGRAM

