

Dual Room Damper Package Installation

To begin, first designate which room you will label as Room 1 (which will be the "off" room when there is no power to the timer) and Room 2.
Step 1: Place the **Bottom Return Air Plenum** where you would like the unit to sit. Now set the Indoor Air Handler on top of the bottom plenum. Next, set the **Top Supply Air Plenum** on top of the Indoor Air Handler and fasten it down using metal screws or strong adhesive tape.

Step 2: Install motorized dampers on to both the Bottom Return Air Plenum and Top Supply Air Plenum. Make sure to fasten dampers with screws or adhesive tape. **Do not push on damper flaps as you can damage the sensitive gear teeth on the motor.**

Step 3: Open the front panel of the Indoor Air Handler. Now take the relay assembly that should have come in a sealed package in one of the motorized damper boxes and remove the blue plug in relay from the sub-base. This can be done by unlocking the orange clip from the relay. Using the provided screw, mount the sub-base to the inside of the Indoor Air Handler cabinet, close to the control board.

Step 4: Next you'll see each wire on the relay assembly is labeled. Find the "**Air Handler R**" (**red**) and "**Air Handler C**" (**white**) wires from the relay and connect loose ends to the "**R**" and "**C**" terminals by screwing onto the Indoor Air Handler control board.

Step 5: Using the 20' roll of 2 Wire supplied (white), cut and strip individual lengths that will run from each motorized damper to the mounted relay assembly. Now that you've cut your 2 Wire lengths connect the white wire to the orange wire on the damper using the Push-On connector. Next, connect remaining black wire to the yellow wire on the damper using the Push-On connector. Repeat this step for all remaining dampers.

Step 6: Take the opposite end of the 2 Wire from each damper and attach the white wire to Push-On connector labeled "**Damper Commons (white)**" at relay assembly.

Step 7: Once all the white wires are connected to the relay assembly, take the remaining black wires from "Room 1" and attach to the orange colored Push-On connector labeled "**Dampers Room 1 (black)**" at relay assembly. Repeat this step for "Room 2" only this time attach to the orange Push-On connector labeled "**Dampers Room 2 (black)**" at relay assembly.

Step 8: Thermostats;

A- Connect red wire from thermostat in "Room 1" to yellow Push-On connector labeled "**Thermostat 1 (red)**" at relay assembly.

B- Connect white wire from thermostat in "Room 1" to Push-On connector labeled "**Damper Commons (white)**" at relay assembly. ***Used previously in Step 6**

C- Connect green wire from thermostat in "Room 1" to screw down terminal "**G**" on the control board of the Indoor Air Handler.

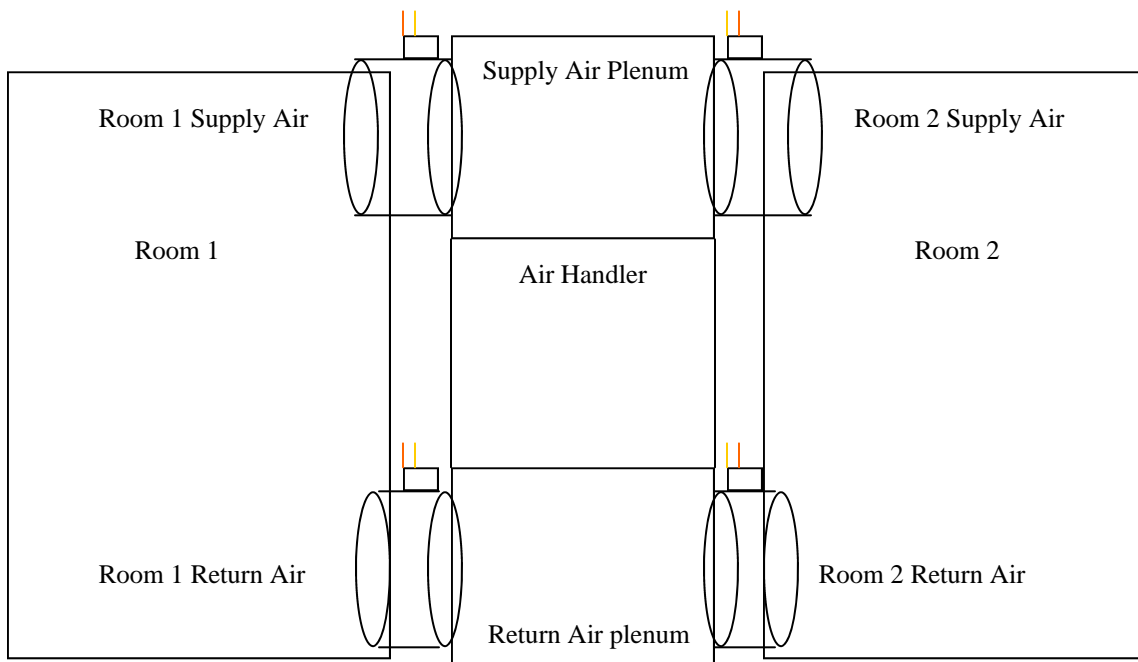
D- Connect black wire from thermostat in "Room 1" to screw down terminal "**Y**" on the control board of the Indoor Air Handler.

E- Connect orange wire from thermostat in "Room 1" to screw down terminal "**W1**" on the control board of the Indoor Air Handler.

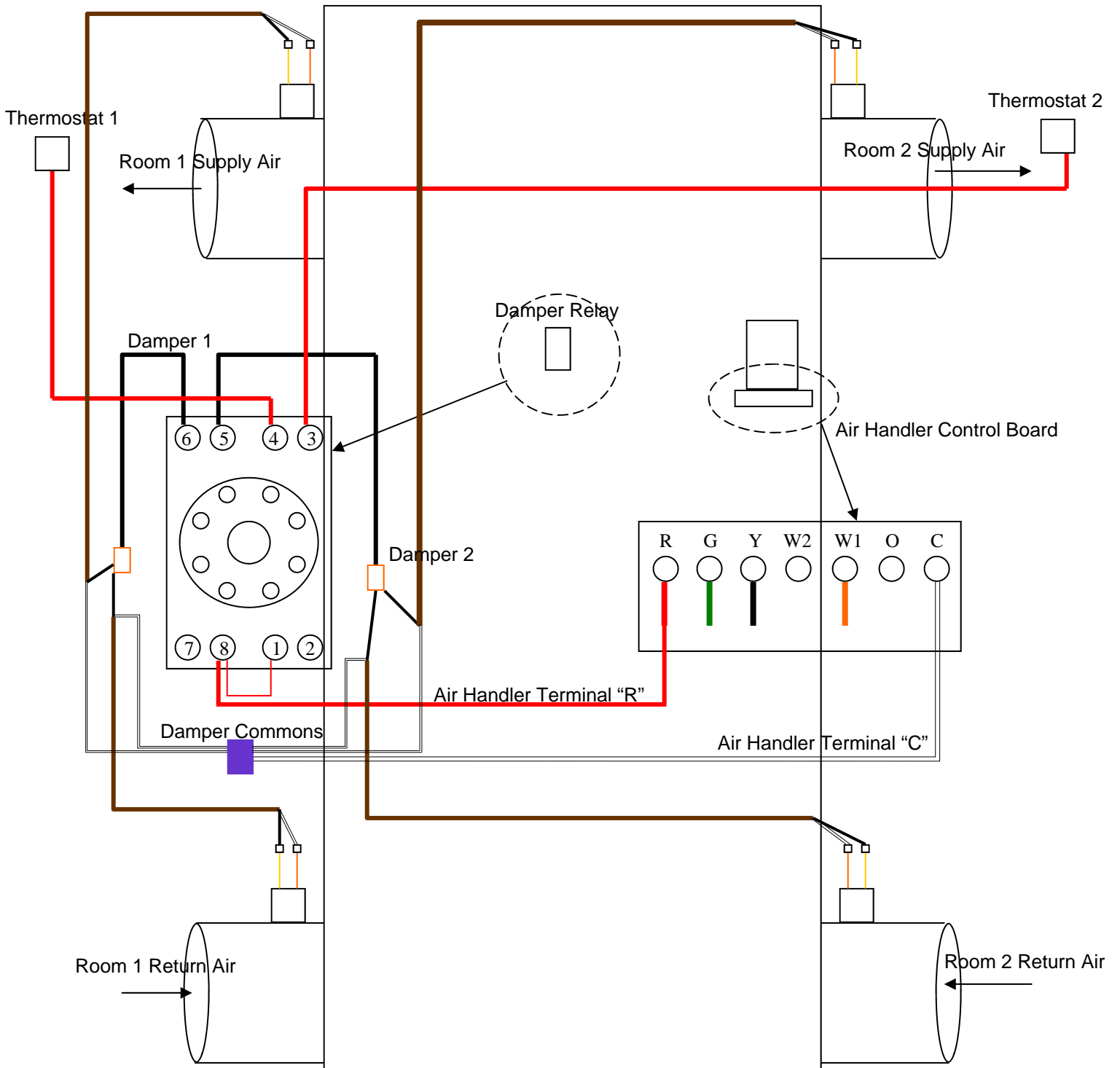
F- Now we'll setup "Room 2" thermostat. Connect red wire from thermostat "Room 2" to yellow Push-On connector labeled "**Thermostat 2 (red)**" at relay assembly.

G- Repeat steps **B-E** for remaining wires for the "Room 2" thermostat.

Step 9: Plug relay on to the sub-base making sure the diagram picture on the relay is facing the orange clip so that it will lock securely. Finally, plug the "**120V Flip Timer**" plug into your timer (not provided). That's it! You're done!



Dual Room Damper Package Wiring Diagram



For more information please contact us Toll Free 1-877-728-0757 or visit us online at www.excelair.ca.