

HMI Hoyme Manufacturing Inc. **Special Note:** Circuits are colored for clarification only and are not necessarily those found in actual installations. Wires of the **Combustion Air Damper**, however, are colored as shown.

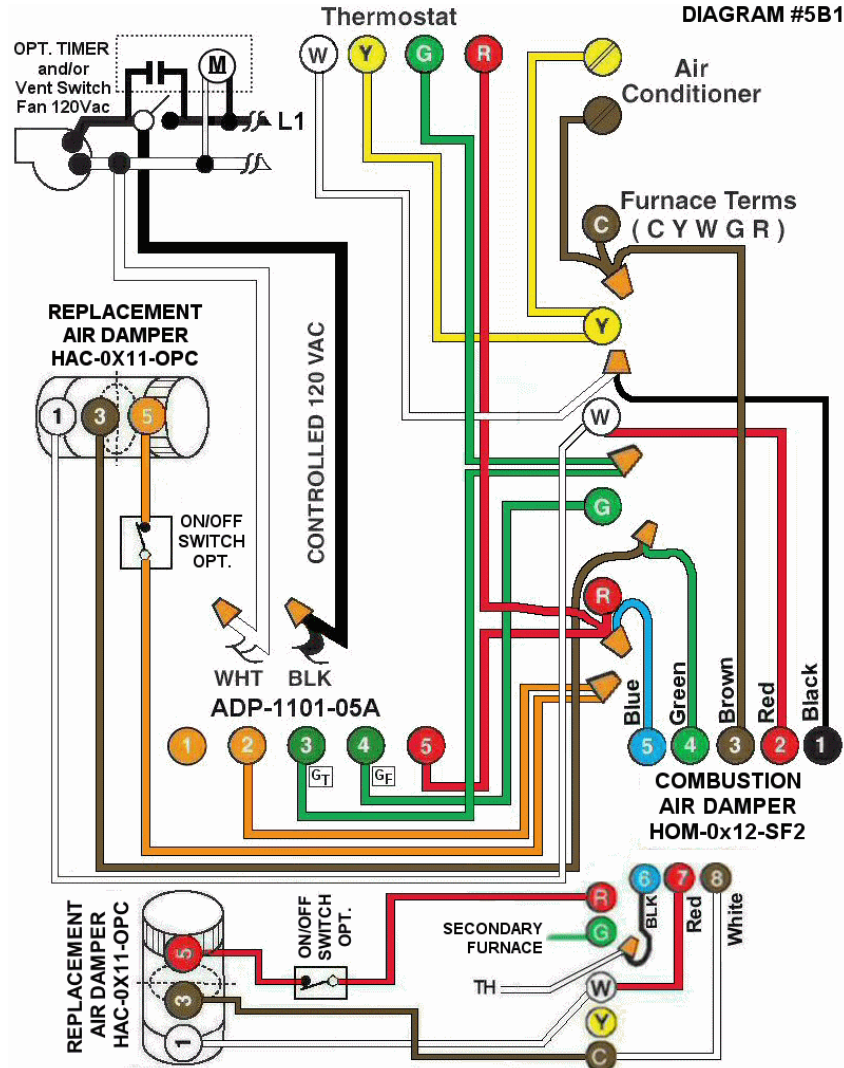


Diagram #5B1: Two Furnaces having a **common combustion air** and two **replacement air supply ducts** together with an **exhaust fan** controlled by a designated **ventilation switch** or **bathroom timer**.

1. Combustion Air Damper for two furnaces (**HOM-0x12-SF2**)
2. One **HAC-0x11-OPC** damper with relay used with adaptor **ADP-1101-05A** connected to the **primary** furnace only.
3. One **HAC-0x11-OPC** damper with relay connected to the **secondary** furnace.

OPERATION:

1. The **combustion air damper** opens when either furnace fires.
2. Primary Replacement Air Damper **HAC-0x11-OPC** opens when primary furnace fires and also opens when ventilation fan is on.
3. Ventilation Switch and/or timer turns on the exhaust fan, the primary furnace fan and opens the primary HAC damper simultaneously.
4. The secondary damper **HAC-0x11-OPC** opens only when the secondary furnace fires or when an overriding optional switch is used.
5. **Optional switch** (i.e. toggle switch, timer, de-humidistat) on each HAC damper allows independent control of each damper.

N.B. Replacement Air Dampers are not affected by the 'Manual' setting of the furnace fan.

Additional Colored Wiring diagrams are shown on the web at www.hoyme.com