**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**.

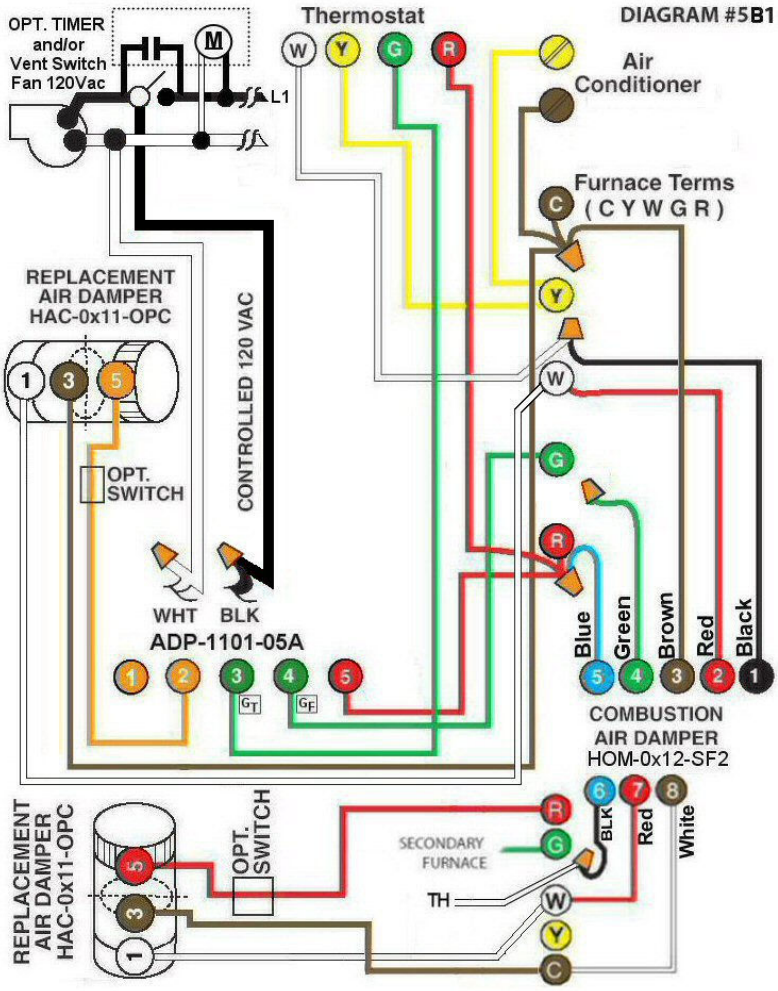


**Diagram #5B1: Two** Furnaces having a **common combustion air** and two **replacement air** supply ducts together with an **exhaust fan** controlled by a designated **ventilation switch or bathroom timer**.

**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. **3**. The secondary damper **HAC-0x11-OPC** opens only when the secondary furnace fires or when an overriding optional switch is used. **4. 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](http://www.hoyme.com)**