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**.

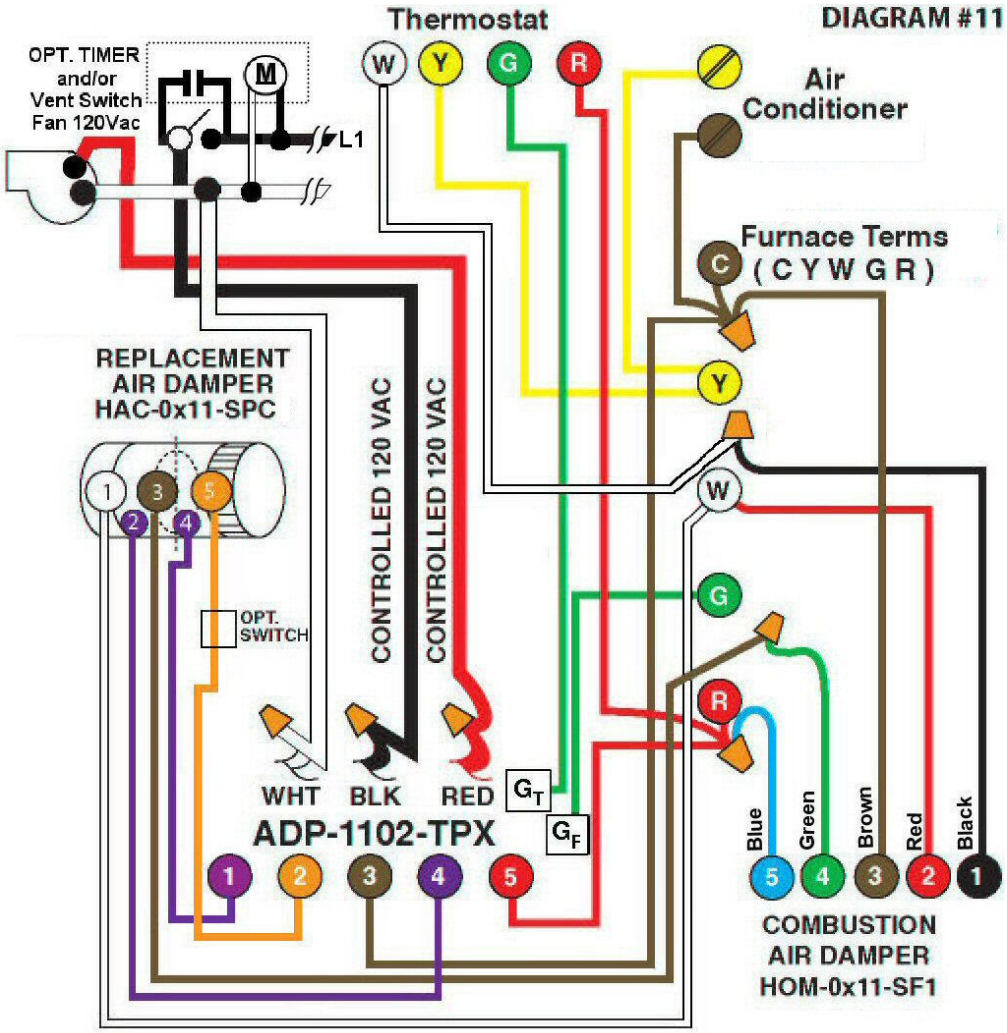

Diagram #11: Forced Air Furnace having a **combustion air** supply duct and a **replacement air** supply duct together with a designated **ventilation switch** and/or **bathroom timer** to turn on an **exhaust fan INTERLOCKED** to a replacement **air control damper to prove to be open before exhaust fan runs.**

1. Combustion Air Damper **(HOM-0x11-SF1)**. **2.** Replacement Air **Damper** with **Relay** and an **End Switch** **(HAC-0x11-SPC) 3.**Ventilation Switch and/or bathroom timer with **controlled and regular 120Vac 3-Wire** supply to furnace area. **4. Relay Adaptor (ADP-1102-TPX)** functions as a control centre.

OPERATION: **1**. Combustion Air and Replacement air damper open during furnace firing. **2**. **Ventilation Switch** and/or **bathroom timer** opens the Replacement Air Damper. **After Damper proves to be opened (INTERLOCKED),** the Ventilation Fan and Furnace Fan will turn on. **3. Optional switch** (i.e. toggle switch, timer, de-humidistat) allows full control of Replacement Air Damper to open at any time provided it is the **PC** type.

N.B. Replacement Air Damper is not affected by the 'Manual' setting of the furnace fan.

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