

# Installation Instructions for **HMI** HOYME Adaptor 1102-TWP 120Vac Controlled Line Voltage to Switch 24Vac

1 Relay Coil-120Vac.; 1 Relay Coil-24Vac. Contact Points - 24Vac - 05Amps

**Installation Of This Adaptor Shall Be In Accordance With The Requirements Of the Authorities Having Jurisdiction.**

**Refer also to HOYME Installation Instructions: Combustion Inlet Air Control Damper, Series HOM; Replacement/Ventilation Air Control Damper - HAC; ADP-1101-05/10A and ADP-0241- 05/10A.**

## **ADP-1102-TWP**



4" x 5" x 2 1/2"  
101 x 127 x 64 mm

This Adaptor is an automatic switch to actuate a 24Vac Replacement/Ventilation damper to open during the exhausting of air or during the firing cycle of the furnace. By connecting the Adaptor 120Vac relay coil to the controlled line voltage of an exhaust fan and connecting the 24Vac circuit to the furnace terminals, the exhaust fan, the furnace fan and the inlet damper will all operate simultaneously. The replacement damper will also operate individually during the firing of the furnace.

**Fitness of this Adaptor/Damper combination to satisfy air supply requirements for fuel fired appliances during operation of the interconnected exhaust fan(s) shall be investigated by the enforcing authorities.**

Air intake duct installation shall be in accordance with: In Canada - CAN/CSA B149 & B139; In the USA – ANSI/NFPA 54, 2006, ANSI Z223.1 and/or local codes including local codes relating to ventilation air duct installation.

I.D.: ADP -1102 - TWP; c/w 1 - DPDT Relay Coil-120Vac; 1- SPDT, Relay Coil 24Vac. Points - 24Vac - 05Amps.

-Adaptor line voltage leads, connected to the exhaust fan controlled line, shall be suitably cabled, fastened and enclosed in suitable raceways.

-Refer to local and applicable codes.

-Always conduct a thorough check-out after installation is complete.

-Affix appropriate labels and follow instructions and warnings on each label.

1. Install motorized air control damper as per instructions supplied with it. Satisfactory operation of the inlet damper is recommended before interconnecting Adaptor.

2. Turn off electrical power supply to appropriate appliance(s).

3. Connect Adaptor line voltage leads to the controlled exhaust fan circuit as per wiring diagram. Follow applicable codes.

4. Connect the live 24Vac (R) wire to **Adaptor terminal #5** and connect **Adaptor terminal #2** to Inlet Air Damper (**Power Close**) type. If Inlet Damper is (**Power Open**) type, then connect **Adaptor terminal #1** to Inlet damper.

5. Connect common side of 24Vac transformer (C) to remaining side of Damper Motor. (See damper wiring diagram for motor circuit)

**Note: IF FURNACE FAN IS TO RUN DURING THE EXHAUST FAN CYCLE, connect Adaptor terminal #4 to Furnace (GF) (G may vary on different furnaces) and connect Thermostat (GT) to Adaptor terminal #3.**

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6. Turn on electrical line power to appliance(s). If damper is a Power Open type, it will remain closed at this time. If damper is a Power Close type, it will close at this time.

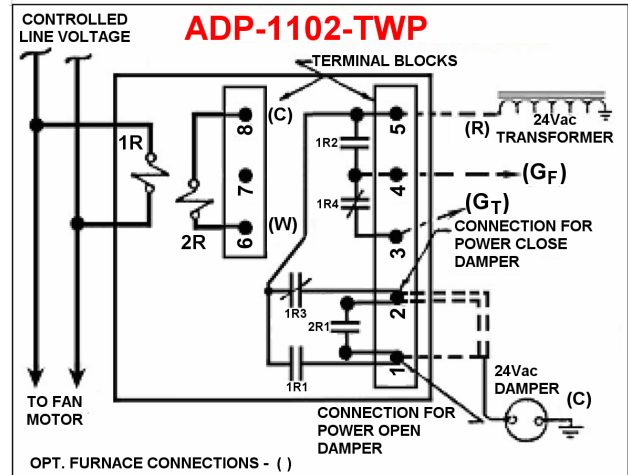
7. Turn on exhaust fan switch. Exhaust fan, furnace fan and inlet damper will actuate simultaneously.

**Note: IF DAMPER IS TO OPEN DURING FIRING OF THE FURNACE,** connect Adaptor #6 to Furnace 'W' and Adaptor #8 to furnace 'C',

See Schematic Wiring Diagram Of Adaptor ADP-1102-TWP. This Adaptor is used as an Automatic Control Centre to:

1. Simultaneously turn on a Furnace Fan and actuate a 24Vac Inlet Damper during the use of an Exhaust Fan;
2. Open an Inlet damper during the firing cycle of the furnace.

Relay Coil: 120Vac ; Relay Coil: 24Vac. Points 24Vac: 05A.



Note:

This marking is also on label to be affixed adjacent to appliance wiring diagram. Additional wire shall be of the same size as originally used when completing electric circuits.