

Installation Instructions for **HMI** HOYME Adaptor 0241- 05A/10A 24Vac Controlled Voltage - Switches 24Vac/ 120Vac

INSTALLATION OF THIS ADAPTOR SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION

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

ADP-0241-05A/10A



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

This Relay Adaptor may be used as an automatic switch having a **24Vac Coil** and **120Vac points** to control a line voltage circuit for either a 5 or 10 amp draw such as a 120Vac exhaust fan. It can also be used 100% for 24Vac switching. (See wire diagrams on next page.)

A typical application for the 100% 24Vac switching is to interconnect the 24Vac coil to the points of an exhaust fan relay. Thus when the coil is activated, the fresh air inlet damper will open simultaneously with the furnace circulating fan and exhaust fan allowing fresh air to enter while the exhaust fan is on. This adaptor/ damper arrangement does not, however, accommodate the damper to open while the heating appliance fires. **Should the damper be required to also open simultaneously as the appliance fires, refer to wiring diagram (next page) showing the Power Close Damper with Relay.**

Suggestion: If controlled line voltage is available from the exhaust fan, use **Adaptor ADP- 1101- 05A** and follow its installation instructions.

Fitness of this Adaptor/Damper combination to satisfy air supply requirements for fuel fired appliances during operation of the

Inter-connected 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.

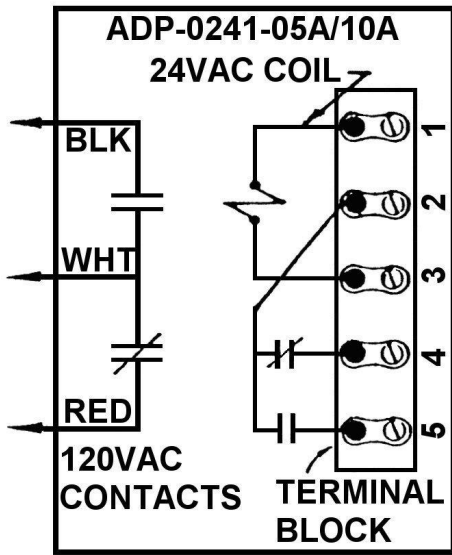
I.D.: ADP-0241-05A; c/w 1-Relay
Coil-0.05A, 24Vac. Points-120Vac- 5Amps.

ADP-0241-10A; c/w 1-Relay.Coil-0.05A, 24Vac.
Points. 120Vac -10Amps.

- One adaptor is required for each heating appliance.
- Adaptor line voltage leads, connected to the appliance shall be suitably cabled, fastened and enclosed in suitable raceways.
- Refer to local and applicable codes.
- If an auxiliary transformer is required, use an approved 24Vac transformer of adequate capacity.
- Supply for the transformer primary shall be taken from the line voltage supply of the appliance. Refer to applicable codes.
- Always conduct a thorough check-out after installation is complete.
- Affix appropriate labels and follow instructions and warnings on each label.

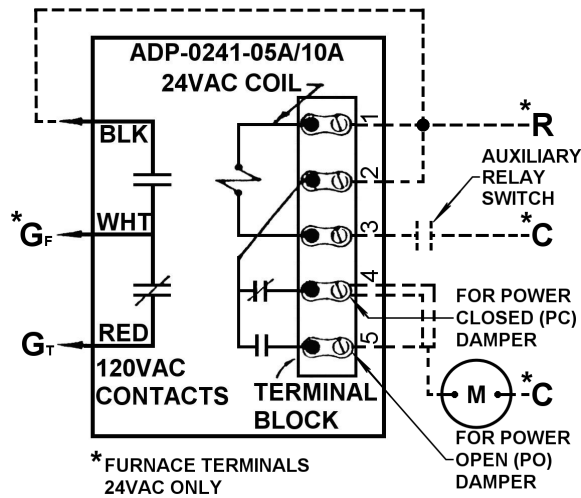
1. Install motorized air control damper as per instructions supplied with it. Satisfactory operation of the damper is recommended before interconnecting Adaptor.
2. Turn off electrical power supply to the appliance.
3. Connect Adaptor line voltage leads to fan motor circuit as per wiring diagram and applicable codes.
4. Connect 24Vac Damper terminal wires to appropriate Adaptor, transformer and control switches. (See damper wiring diagram for proper circuit.)
5. Turn on electrical power to 24Vac transformer. 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.
6. Turn on selected switches at least 3 times to verify the intended operation of selected circuits.

SCHEMATIC WIRE DIAGRAM OF ADAPTOR ADP- 0241- 05A/10A



Note: This marking is also on the cover of the Adaptor unit.

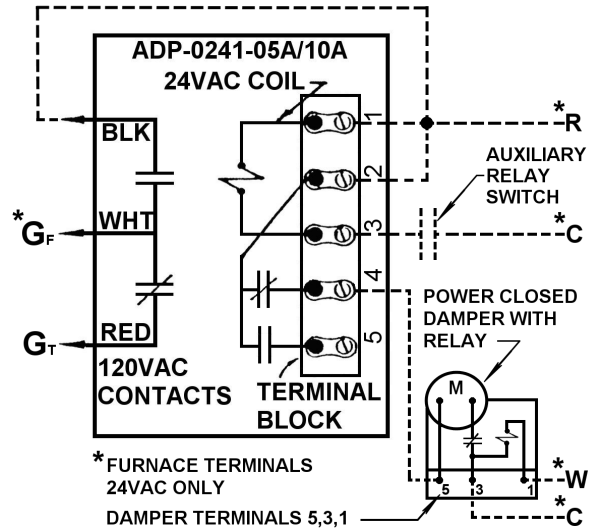
Schematic Wire Diagram of ADP-0241-05A Controlling a Furnace Re-circulating Fan and a Fresh Air Damper Activated by an Exhaust Fan Auxiliary Relay Switch
Damper remains closed during furnace firing.
 (See 'Notes' for alternatives)



Note: This marking is also on label to be affixed adjacent to appliance wiring diagram if applicable.

Suggestion: Use fresh air damper HAC-0X10-OPO/ PC where X = Diameter of damper, PO= Power Open, PC= Power Close.

Schematic Wire Diagram of ADP-0241-05A Controlling a Furnace Re-circulating Fan, and a Power Close Fresh Air Damper with Relay Activated by an Exhaust Fan Auxiliary Relay Switch and/ or Thermostat.
Damper also opens during furnace firing.



Note: This marking is also on label to be affixed adjacent to appliance wiring diagram if applicable.

Suggestion: Use Fresh Air Damper with Relay I.D. HAC – 0X11 – OPC where X = Diameter of Damper, 1 = Relay, PC = Power Close

Note: For PC damper only, a toggle switch in series with 24Vac electrical supply line to the Damper will cause it to open as required.

*** Note:** For PC damper without relay and if adding a Combustion Air Damper, re-connect Fresh Air Damper from furnace 'C' to Green wire of the Combustion Air Damper. Both dampers will open during firing of the furnace.

*** Note:** If existing ventilation relay (auxiliary relay switch) cannot be located, relay wires presently connected to 'R' and 'G' of the furnace are to be re-connected to '3' of ADP and 'C' of the furnace. ADP 'WHT' will then go to 'G_F' of the furnace and ADP 'RED' will go to 'G_T' of the thermostat, (if used). See wiring diagrams.

HMI HOYME Manufacturing Inc.
 1-800-661-7382 www.hoyme.com