Installation Instructions for HMI HOYME **Adaptor 0244-05A**

Control Centre for One Furnace with Two Thermostats heating/cooling Two Separate Zones

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

Refer also to HOYME Installation Instructions for Replacement/Ventilation Air Control Damper, Series HAC.

ADP-0244-05A

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

This Relay Adaptor (x2) is to be used in **tandem** as a control centre to operate **one furnace** with **two separate thermostats** to heat and cool **two separate zones** in a building. **Two** 24Vac **P**ower **C**lose **dampers** are also required. (See wire diagrams on page 2)

Two-damper zone control operation:
Two Air Control Dampers are required and are to be in the normally open position so that air from the furnace fan supplies air simultaneously to both zones. At such time as heating/cooling is required to a zone, the damper to the other zone closes thus allowing air to continue flowing to the zone of attention. If both zones ask for attention, both dampers remain open. At no time are both dampers closed while the furnace circulating fan is running. The call for air conditioning overrides the call for heat.

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.

If an intake air duct is required, 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-0244-05A. (**Two required**)
Each Adaptor comes with four 24Vac relays:
2 – DPDT, Coil 24Vac. Pts 24Vac-5 Amps.
2 – SPDT, Coil 24Vac. Pts 24Vac-5 Amps

General Installation:

- 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.
- Always conduct a thorough check-out after installation is complete.
- Affix appropriate labels and follow instructions and warnings on each label.

Adaptor Installation:

1. Turn off the power to the furnace.
2. Place adaptors side by side in the area of the furnace and identify each adaptor with each zone.
3. Connect each zone thermostat to its own adaptor as per wiring diagram.
4. Note: Connect each adaptor to each other with terminal #1 to terminal #2 of the other.
5. Connect each adaptor to the furnace terminals as per wiring diagram.

Two zone damper installation: Before installing dampers, test for operation to power close with 24Vac supply.

Note: Zone dampers are to be sized so that the air flow capacity of either damper does not overload the air flow capacity of the furnace fan. If

necessary, use an atmospheric pressure damper as a bypass.
1. Install the two zone dampers as per instructions supplied with them.
2. Connect each zone damper to each zone adaptor as per wiring diagram. Recheck all wiring.
3. Turn thermostat to lowest setting and turn on the power to the furnace.
4. Test heating/cooling cycles at least three times to confirm proper operation.

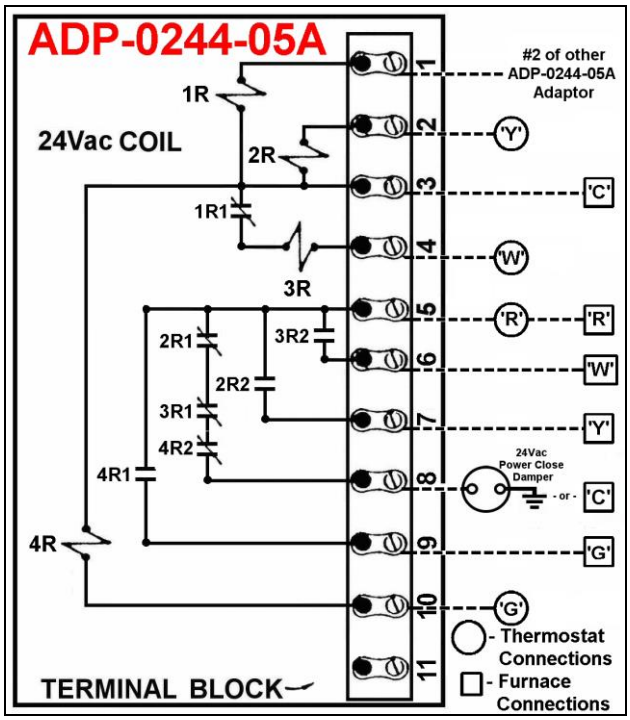
Damper Identification:

For round dampers use the universal damper **HAC**-0**X**10-O**PC** where **X** = Diameter of damper, **PC**= **P**ower **C**lose.

For rectangular dampers use the custom made **HCR** - **xxxx** - O**PC** where **xx - -** = width, **- - xx** = height (also the motor side).

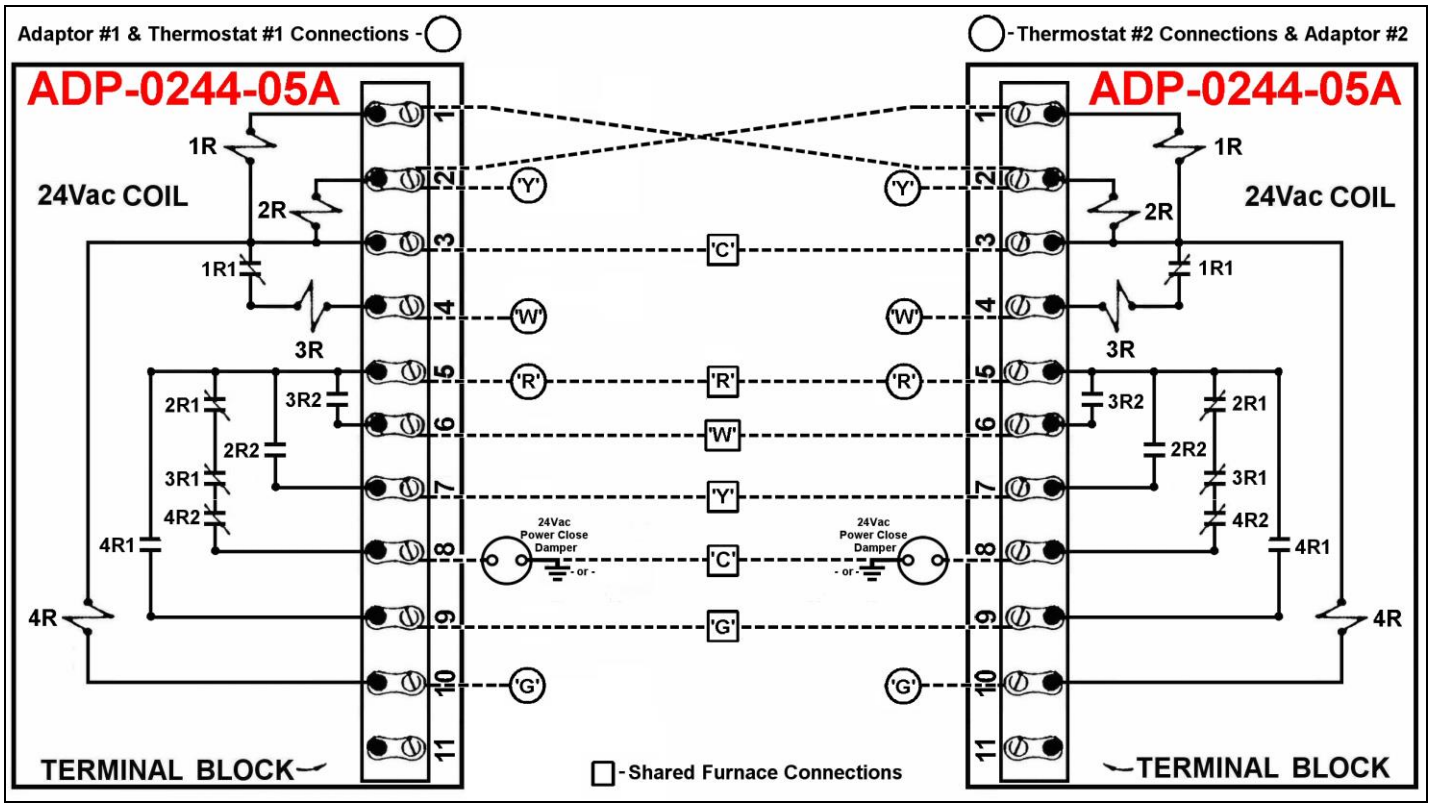
For rectangular slip-in dampers use the custom made **HSI** - **xxxx** - O**PC** where **xx - -** = width, **- - xx** = height (also the motor side).

SCHEMATIC WIRE DIAGRAM OF ADAPTOR ADP-0244-05A



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

Schematic Wire Diagram of adaptors ADP-0244-05A connected together



This label is to be placed next to the wiring diagram of the appliance.