

TVC™ Timed Ventilation Control




PRODUCT DATA

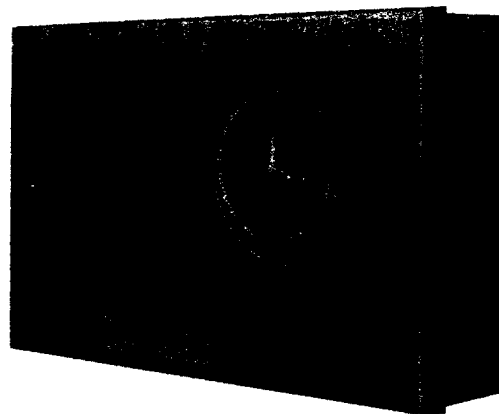
The Trol-A-Temp Timed Ventilation Control, Model TVC™, is a line voltage control designed to meet the new ventilation standards being adopted in a number of states. The TVC control panel has a built-in 24 hour timer, transformer and relay to control an outside air damper, furnace fan and central exhaust fan.

The timer controls the operation of the TVC. The timer face has a 3 position switch, on the lower right of the clock face.

This switch can be set to "I" for continuous operation. This position overrides the timer and keeps the TVC operating until it is set to another position.

Setting this switch to the "O" position turns the TVC OFF. Setting this switch to the middle position  allows the timer to operate the TVC automatically. When any one of the timer levers is pushed away from the clock face, this is the time the TVC will be activated. When the timer levers are placed in towards the clock face the TVC will be off.

When the TVC is activated, either by the manual ON switch or automatically by the timer, the timer contacts send 24 Volts to the M1 and M4 terminals to power open a motorized damper. The timer also energizes the built-in low voltage relay. This relay's contacts will activate the central HVAC indoor fan and where



required will activate a separate bathroom or central exhaust fan. The HVAC blower/fan contacts, R, G and GT are 24 volt circuits. The F1 and F2 central exhaust fan contacts are 115 Volts. When the timer turns off, the TVC removes the power from M1 and M4 terminals to close the damper and opens the F1 and F2 terminals. It also opens the R and G terminal contacts and closes the G and GT terminal contacts.

INSTALLATION

The TVC is an easy control to install. After unpacking, remove the panel cover screw and open the swing door. The back of the TVC case has two keyholes to mount to any flat surface with two screws. It is recommended that the TVC be mounted indoors where it is most convenient to change the timer settings when necessary. After mounting, install wiring connectors in



bottom knockouts. Follow wiring diagram on inside panel door. After wiring, close door and secure with screw. Set timer for desired time and operation.

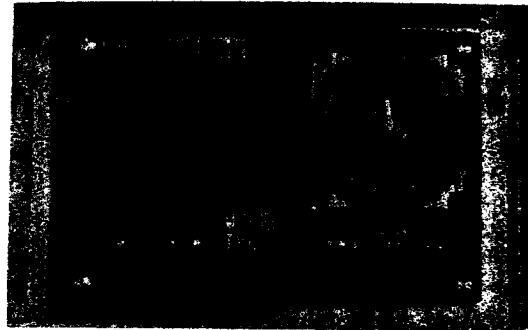
CHECKOUT

The TVC is an easy control to checkout and troubleshoot, requiring only a volt/ohm meter. Remove all wiring except for 115 Volt power leads to L1 and L2.

1. Check for 115 Volts on the L1 and L2 terminals. If less than 110 Volts check power source and wiring.
2. Set the timer to OFF, either manually or automatically. Using ohm meter check continuity across the F1 and F2 terminals. There will be no continuity. When timer is ON the ohm meter will read 0 ohms.

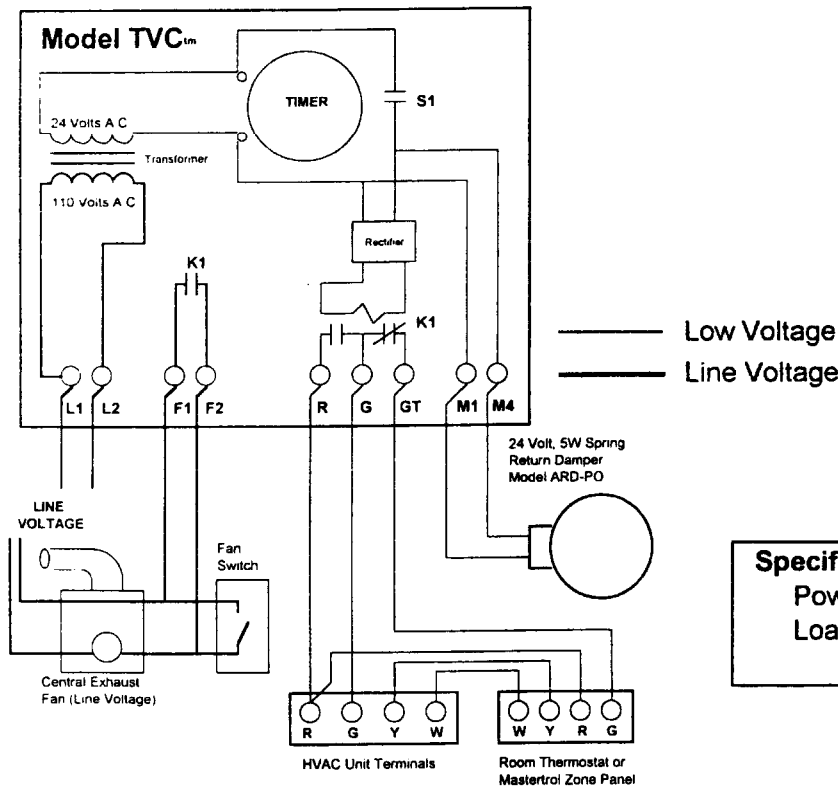
3. When the timer is OFF, there will be continuity across terminals G and GT. When the timer is ON there will be continuity across R and G.

4. Switch the meter to volts and check for 24 Volts on the M1 and M4 terminals when the timer is ON. When the timer is OFF there will be no voltage.



TVC with cover removed for wiring.

WIRING DIAGRAM



Specification:
 Power - 115V, 50/60HZ
 Load - 1/8 HP @ 125-250 VAC
 - 5A @ 277VAC

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