

# Ventilation Control System

## MDEH2 - Dehumidistat On / Off



### Wiring

This control requires 4 low voltage wires (color coded 18-24 gauge recommended) for operation.

**Warning** - it is critical to the operation of the system that the polarity of the control and its wiring match exactly with the HRV/ERV circuit board.

**Kit Include** - Two (2) 1/4" connectors  
Two (2) inserts  
Two (2) screws

### Mounting and Wiring Wall Control

- Remove control from box
- Remove ON/OFF switch from control by pulling outward
- Separate control cover from back plate by gently prying apart
- Using back plate, mark mounting holes on wall where control is to be mounted and install wall plugs (provided)
- Pull wire out of wall and through back plate
- Line up wall plugs with the holes in the back plate and insert screws (provided) through plate to secure
- Connect wires to control terminal block marked "COM, IN, -, +", (Fig A) and secure. *Note location or color of each wire as it will need to be matched up with appropriate terminal or dry contact on HRV/ERV.*
- Attach face plate by pushing it gently from the bottom then top.
- Attach ON/OFF slider switch

### Connecting Wires to HRV/ERV

**Warning:** Correct polarity of the wires is critical to the operation of this control. Incorrect wiring will cause the control and/or the HRV/ERV to not function properly and may void its warranty.

**Warning:** HRV/ERV MUST be unplugged before attempting to connect any wires to it. Serious injury or damage to the equipment may occur if this is not done.

- Using latches open HRV/ERV access door
- Remove cover on electrical box if applicable (confirm unit is unplugged)
- Connect two (2) wires from "+,-" on the control to the assigned spring terminals or dry contacts on outside of HRV/ERV cabinet labeled "Dehum" (Fig B)
- Puncture rubber plug below terminal block on outside of HRV/ERV cabinet and pull remaining 2 wires through
- Connect wire assigned to "COM & IN" on control to "COM & IN" quick connects of circuit board located in the electrical panel (Fig C). Quick connectors provided.
- Reinstall electrical cover
- Close HRV/ERV access door
- Plug HRV/ERV in and set to desire speed

Figure A

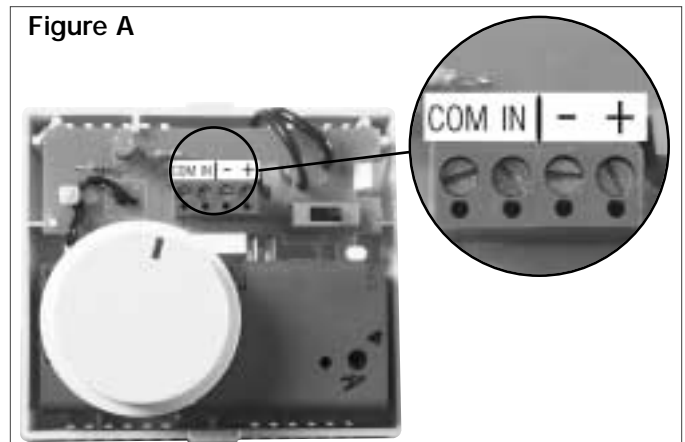


Figure B

Depending on model

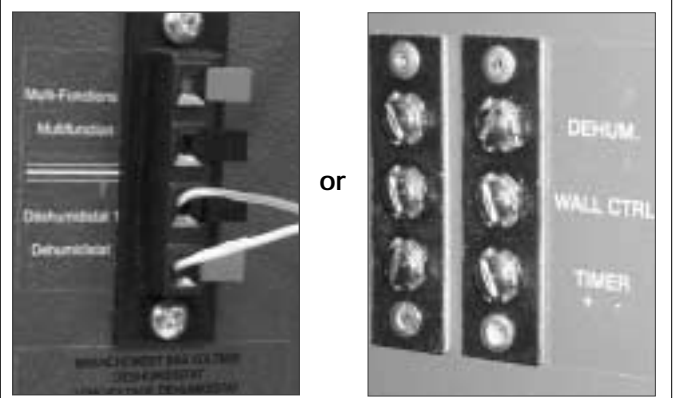
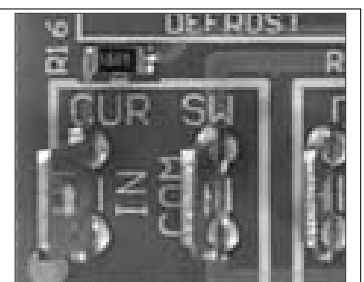


Figure C



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### Commissioning

Once connected a light on the MDEH2 will illuminate indicating it has power to it.

- The rocker switch located on the side of the HRV/ERV is used to control the continuous fan speed, set unit to Low or Med. The wall control slider switch **MUST** be in the "ON" position. Confirm HRV/ERV operates. Slide switch to "OFF" position and confirm HRV shuts off, this will acknowledge that this feature operates correctly.
- Slide switch back to On position.
- Using the dial on the wall control, turn it all the way to the left and then all the way to the right. You should hear a click the further right you turn it and a light on the dial will illuminate. Both fans should switch to high speed.

### Operation

The ON/OFF slider switch **MUST** be in the "ON" position for the HRV/ERV to operate. In the off position the HRV can not be energized by any remote control, or at the unit until the slider switch is turned back to the "ON" position

Turn dial on control to desired humidity level. 25-35% is typical for a winter setting in areas of the country that experience below freezing condition from time to time. As the outdoor temperature rises, the controls setting can be increased. Once the outdoor humidity levels increase above that of the inside (i.e Spring, Summer) the controls dial can be set to the far left preventing it from coming on. The HRV/ERV will still function on selected fan speed. The setting of the dehumidistat varies among occupants and is based on comfort. Periodic adjustments may be necessary to find the setting right for you.

A light on the dial of the wall control will illuminate to indicate it is in override mode and that the HRV/ERV has gone to high speed.

### Description

The dehumidistat is a device used to control indoor humidity levels. Today's tight home can trap pollutants including higher moisture level that can degrade building materials and contribute to poor indoor air quality. The Dehumidistat lowers the indoor humidity by sensing the conditions around it and increasing the speed of the HRV/ERV which gives a greater air change rate between the inside and outside environments.

**NOTE:** This dehumidification process can only occur when outdoor humidity level is LOWER than the indoors.



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