

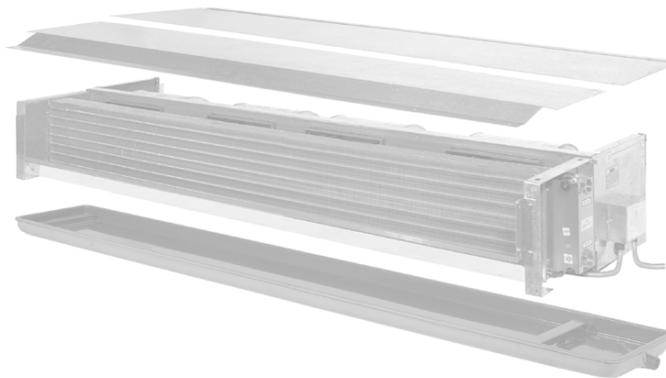
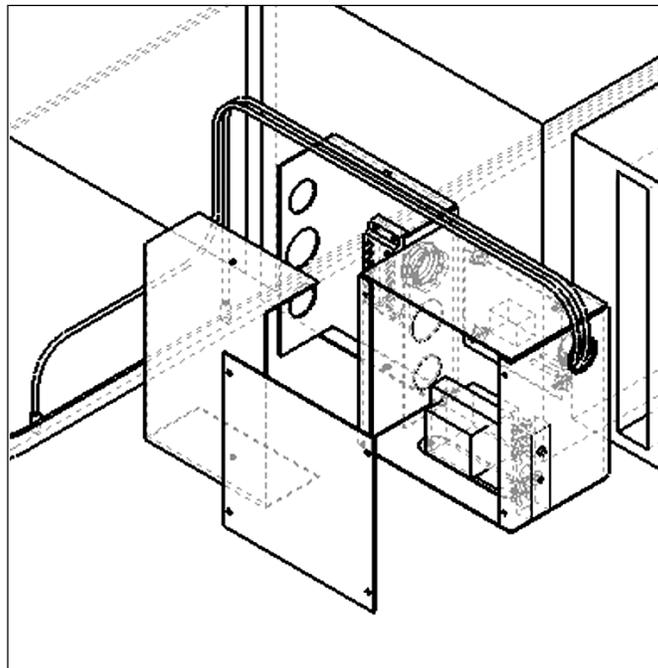
Group: Fan Coil

Part No: 667848781

Date: March 2006

Condensate Overflow Control System (Field Installed Kit) for Daikin Model THC - Horizontal Concealed Fan Coil Unit

Kit Part No. 667848711



Safety Information

The installation of this equipment shall be in accordance with the regulations of authorities having jurisdiction and all applicable codes. It is the responsibility of the installer to determine and follow the applicable codes. Sheet metal parts, self-tapping screws, clips, and such items inherently have sharp edges, and it is necessary that the installer exercise caution. This equipment is to be installed only by an experienced installation company which employs trained personnel.



DANGER



Disconnect all electrical power before servicing unit. Electrical shock will cause severe injury or death.



WARNING

To avoid electrical shock, personal injury or death:

1. Installer must be qualified, experienced technician.
2. Disconnect power supply before installation to prevent electrical shock and damage to equipment.



WARNING

Rigorously adhere to field wiring procedures regarding proper lockout and tagout of components.



CAUTION

Sharp metal edges are a hazard, use care when servicing to avoid contact with them.

Introduction

The condensate overflow kit is intended to be field installed with Daikin THC fan coil units only. With proper mounting, the two sensors will detect the presence of water in the drain pan before overflow can occur (the water completes a circuit between the two sensors).

Removal of the water automatically resets the system after a lockout condition.

NOTE: The installer is responsible for providing the proper wire and conduit for power and control wiring.

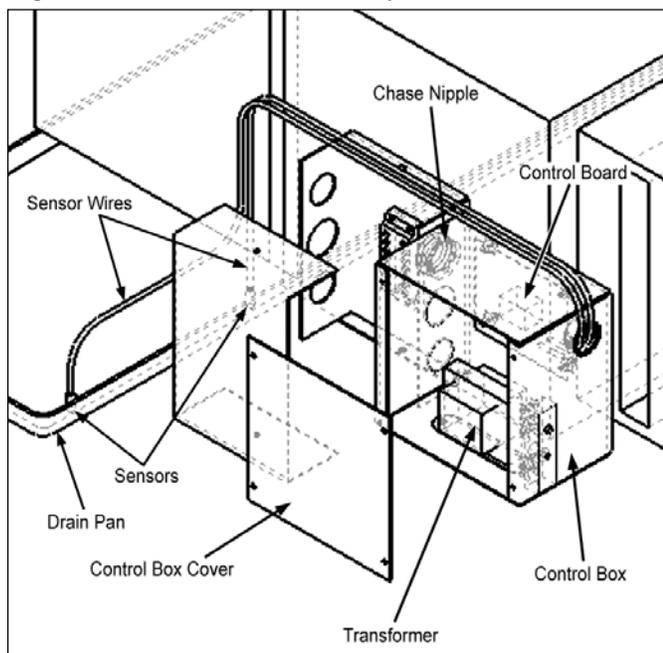
Parts Included With Kit

Control Box with Cover
ICM Condensate Control Board
ICM Wire/Sensor/Clip Kit
Conduit-FTG, 1/2" Bushed
Transformer, 115V/24V, 10VA

Installation Procedure

1. Turn off and disconnect all power to the unit.
2. Fit the control box chase nipple (provided) into the appropriate knockout in the control box, then install the control box (Figure 1) in the location shown. The control box can be mounted in an alternate location if required.
3. Attach the sensor clips on the vertical lip of the drain pan (Figure 1).
4. Uncoil the sensor wires and snap the sensors into the sensor clips.
5. Slide the sensors up or down in the clips to set the depth at which water accumulating in the drain pan is sensed.
6. Route the sensor wires to the control box.
7. Secure the wires to the unit so that they cannot be accidentally pulled or removed and change the position of the sensors.
8. Wire the control system per the wiring schematics (Figure 2 & 3, page 4).

Figure 1. Condensate Overflow System Detail



Electrical Terminal Descriptions

GND

The GND terminal is the input for the 24 volt common wire.

COND

The COND terminals are the input terminals for the condensation sensor wires. When continuity is sensed between the two wires placed in the drain pan for a duration of at least one second, the control will assume that condensation is present and turn off the load. It will then transfer the contacts to the normally closed (alarm) position and output to the optional overflow LED (LED +/-).

LED (+/-)

The LED +/- terminals output to the optional overflow LED alarm when the control is in a condensation fault condition.

Circuit Outputs (COM/N.O./N.C.)

The COM, N.O., and N.C. terminals are the output terminals for the load and alarm contacts. When no condensation is present and 24 VAC is applied to the control, the COM and N.O. contacts will be closed. When condensation is detected, the control transfers the contacts and makes continuity between the COM and N.C. terminals.

Options for Remote Signaling

Visual Alarm (Order separately)



Audible/Visual Alarm (Order separately)



Figure 2. Typical System Wiring to Thermostat*

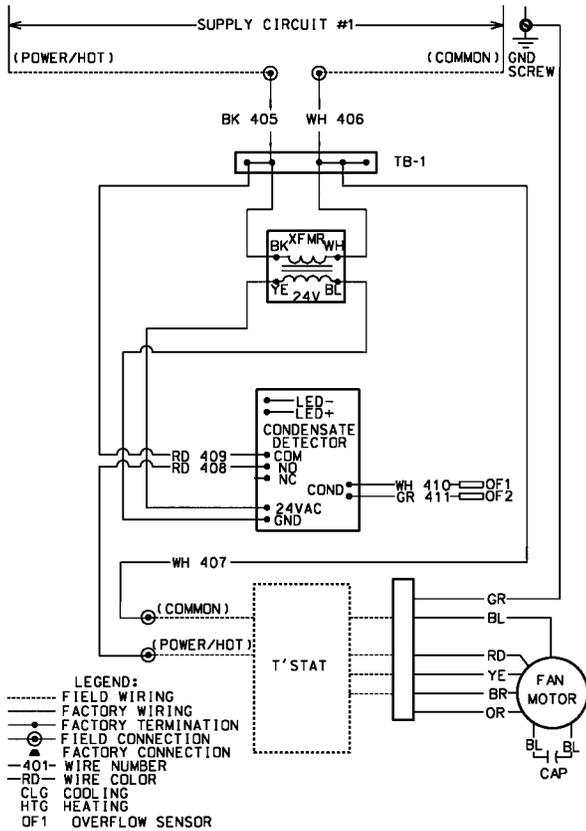
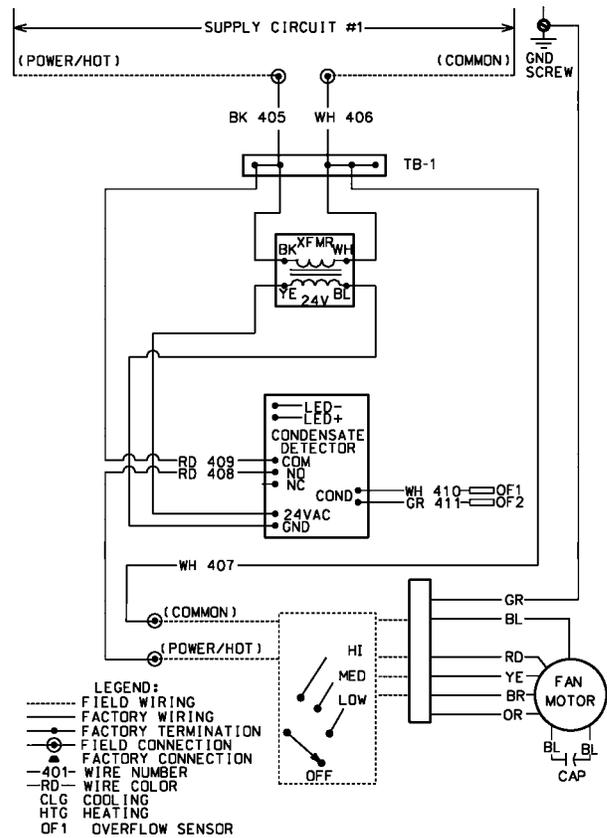


Figure 3. Typical System Wiring to Three-speed Switch*



*Consult your local Daikin Representative for alternative wiring.

Electrical Ratings

OUTPUT	TYPE	NOMINAL	MINIMUM	MAXIMUM
COM	Relay; common	N/A	N/A	N/A
N.O.	Relay; normally open	N/A	N/A	10 Amps @ 150 volts
N.C.	Relay; normally closed	N/A	N/A	10 Amps @ 150 volts

Note: 24v powers the control board only. The output can run on 24v or 115v only.

Circuit Inputs (24 VAC)

INPUT	TYPE	NOMINAL	MINIMUM	MAXIMUM
24 VAC	Power Supply	24 VAC	18 VAC	32 VAC
GND	Power Supply	24 VAC	18 VAC	32 VAC
COND	Sensor	N/A	N/A	N/A
LED (+/-)	LED	N/A	N/A	N/A

Daikin Training and Development

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Warranty

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