



# 48/50HG014-028, 48/50PG03-28 Single-Package Rooftop Units with COMFORTLINK™ Controls Plugged Filter Indicator Accessory

## Installation and Operating Instructions

Part Number CRSTATUS002B00

**IMPORTANT:** There are two different design revision 48/50HG units currently being produced. Because of these differences, there are two different versions of this accessory. This accessory literature covers accessories manufactured for units with design revision 1. Design revision 0 units are not covered in this accessory book.

To determine the design revision, refer to the full unit model number. See Fig. 1 for an example of an HG model number. The design revision number in the model number nomenclature is located in position 13.

DESIGN REVISION NUMBER

Position No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Example:	4	8	H	G	D	0	1	6	A	A	C	6	1	1	A	A

Fig. 1 — Model Number Chart

### PACKAGE CONTENTS

ITEM	DESCRIPTION	QTY	PART NUMBER
1	Switch	1	HK06WC029
—	Screw — 8-18 x 1/2 in.	4	—
2	Control Tube	2	50TG501183
—	Wire Tie	1	—
3	Tube Fitting	1	KA70PP010
4	Hex Nut — #10-32 Brass	1	AT39QA132
5	Bracket	1	48HG500176
6	No. 10 Screw	1	A148AM217

### SAFETY CONSIDERATIONS

Installation and servicing of air-conditioning equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install, repair, or service air-conditioning equipment.

Untrained personnel can perform the basic maintenance functions of replacing filters. All other operations should be performed by trained service personnel. When working on air-conditioning equipment, observe precautions in the literature, tags and labels attached to the unit, and other safety precautions that may apply.

### INSTALLATION

**NOTE:** The plugged filter indicator can monitor filter status (CLEAN/DIRTY). Follow the procedures below and perform the steps necessary to install the plugged filter indicator.

### ⚠ WARNING

**Prior to installation of this accessory, make sure all power is disconnected to the unit and locked out. Failure to disconnect power supply prior to servicing may result in serious injury.**

### ⚠ CAUTION

**When removing panels from the unit, be careful not to damage the roof or other surfaces with the panels.**

### 48/50PG03-16 Units

1. Open the blower access door on the unit.
2. Open the Filter Section access door on the unit.
3. Secure the tube fitting supplied into the filter partition panel as shown in Fig. 2, using the hex nut provided. Tighten the hex nut so that the tube fitting is firmly held in place.
4. Attach the plastic control tube to the tube fitting and route through the unit as shown in Fig. 3. Gently secure using the wire ties provided, making sure not to pinch the tube.
5. Mount the filter indicator switch on the bracket provided (P/N 48HG500176 with two no. 8 screws, as shown in Fig. 4).

**NOTE:** To ensure proper operation of the indicator, the indicator must be installed vertically with the pneumatic ports pointed down.

6. Mount bracket to coil tube sheet using no. 10 screw, as shown in Fig. 2.
7. Connect the control tube to the switch port labeled "H". See Fig. 4.
8. Attach the wires from the unit wire harness to the indicator as shown in Fig. 4. The indicator wires are bundled into the unit harness near the indicator location. The brown wire attaches to the no. 1 terminal on the switch and the orange wire attaches to the no. 3 terminal on the indicator.
9. Restore power to the unit.

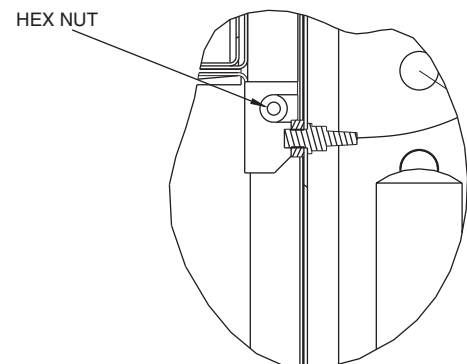
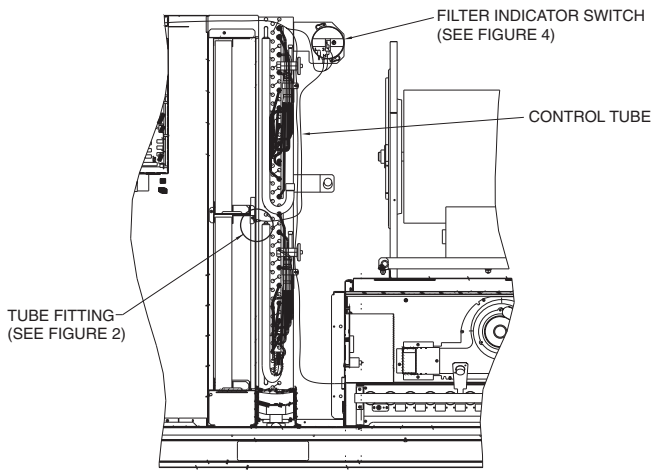
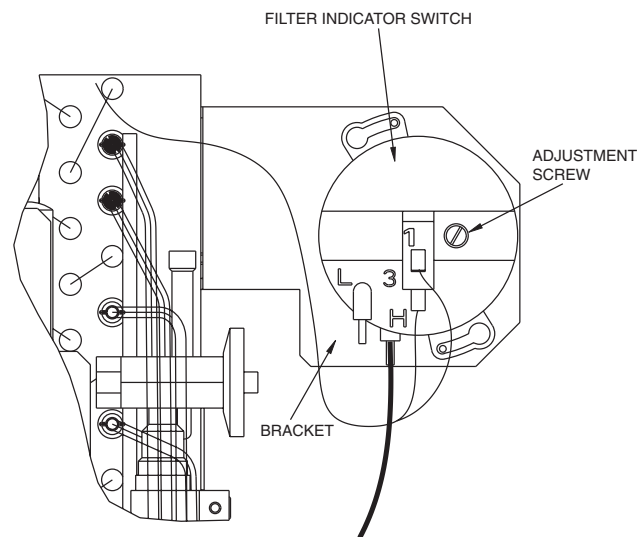


Fig. 2 — Mounting the Tube Fitting (48/50PG03-16 Units)



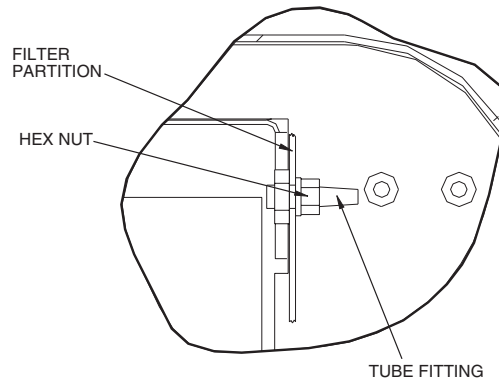
**Fig. 3 — Indicator Location and Tube Routing (48/50PG03-16 Units)**



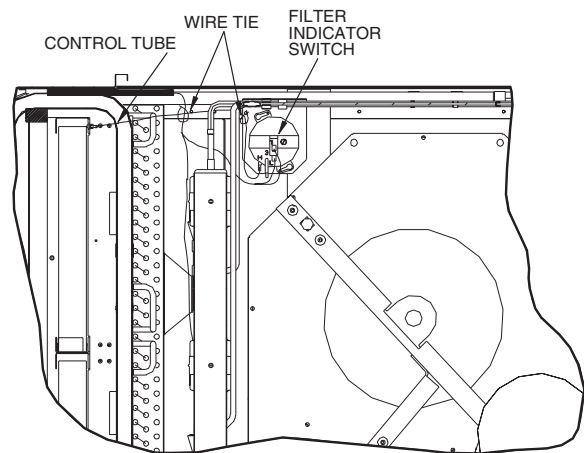
**Fig. 4 — Indicator Details (48/50PG03-16 Units)**

**48/50HG014-024, 48/50PG20-28 Units**

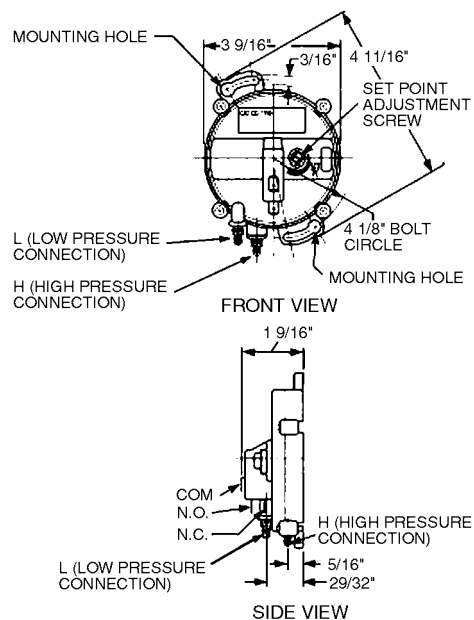
1. Open the blower access door on the unit.
2. Open the Filter Section access door on the unit.
3. Secure the tube fitting supplied into the filter partition panel as shown in Fig. 5, using the hex nut provided. Tighten the hex nut so that the tube fitting is firmly held in place.
4. Attach the plastic control tube to the tube fitting and route through the unit as shown in Fig. 6. Gently secure using the wire ties provided, making sure not to pinch the tube.
5. Mount the filter indicator switch on the bracket in the Fan Section as shown in Fig. 6, using the screws provided.  
NOTE: To ensure proper operation of the indicator, the indicator must be installed vertically with the pneumatic ports pointed down.
6. Connect the control tube to the switch port labeled "H". See Fig. 6 and 7.
7. Attach the wires from the unit wire harness to the indicator. The indicator wires are bundled into the unit harness near the indicator location. The brown wire attaches to the no. 1 terminal on the switch and the orange wire attaches to the no. 3 terminal on the indicator.
8. Restore power to the unit.



**Fig. 5 — Mounting the Tube Fitting (48/50HG014-024, 48/50PG20-28 Units)**



**Fig. 6 — Indicator Location and Tube Routing (48/50HG014-024, 48/50PG20-28 Units)**



**Fig. 7 — Indicator Connections and Adjustments (48/50HG014-024, 48/50PG20-28 Units)**

## CONFIGURATION

1. The control system must be configured to use the Plugged Filter Indicator. A password may be required to edit the configurations, depending on the previous settings configured in the unit. Default password is "1111".
2. To configure the control use the arrow keys on the Scrolling Marquee display to scroll the red LED on the display to the Configuration position and press **ENTER**. Use the arrow keys to scroll down until the display shows "UNIT", and press **ENTER**. Use the arrow keys to scroll down until the display shows "FL.SW", and press the **ENTER** key. At the Filter Switch (FL.SW) setting (default is "0" which means no indicator), press **ENTER** ("0" should be flashing). Use the arrow keys to change the configuration to "1" for a normally open indicator switch, and press **ENTER**. Using a configuration of "2" (normally closed indicator switch) is not recommended for this application.
3. Configuration of the plugged filter indicator is now complete. Pressing the **ESCAPE** key several times will return the display to the auto scroll setting.
4. Consult the Controls and Troubleshooting Guide for complete instructions on using the *ComfortLink*<sup>TM</sup> control system.
5. To configure the plugged filter indicator, place the unit in Fan Only mode. The unit return air filters should be clean or new. Using a flat head screwdriver, rotate the adjustment screw until the pressure switch opens (see Fig. 4 for 48/50PG08-16 units or Fig. 7 for 48/50HG014-024, 48/50PG20-28 units). Rotate the adjustment screw in the same direction another 1/4 turn.
6. Close and secure all access doors.

## OPERATION

The plugged filter indicator will determine when the filters become dirty depending on the differential pressure across the filters. When the pressure drop exceeds the set point on the switch, an alarm will be generated, indicating a dirty filter. The alarm can be accessed either at the unit display or over the Carrier Comfort Network if installed.

**Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.**