

Installer's Guide

**LOAM-IN-1
18-HD60D58**

Customer Property: Contains wiring and service information. Please retain.

Library	Service Literature
Product Section	Unitary
Product	Unitary Accessories
Model	T'stat, Panels, Timers, Relays
Literature Type	Installer's Guide
Sequence	1
Date	April 2003
File No.	SV-UN-ACC-LOAM-IN-1 4/03
Supersedes	New

Models : BAYLOAM023A
Used With: 12 1/2 - 25 Ton Packaged Rooftop units with Reliate[™] Communications Module

Evaporator Defrost Control

General

The evaporator defrost control (EDC or Froststat[™]) is installed in the evaporator (Indoor) coil face area. Its purpose is to cycle the compressor when the evaporator frosts under low outdoor ambient cooling conditions or low airflow applications. The EDC indicates when the evaporator is 10°F (-12.2°C) or below. It resets at 60°F (15.6°C).

Inspection

1. Unpack all components of the BAYLOAM023A kit.
2. Check carefully for any shipping damage. If any damage is found it must be reported immediately and a claim made against the transportation company.

Parts List

- 1 ea. Froststat[™] Evaporator Defrost Control with Capillary - X13541190
- 1 ea. Mounting Bracket
- 2 ea. Screw, Sheet Metal, 10-16 X .50
- 2 ea. Screw, Thread Roll, 8-32 X .50
- 5 ea. Wire ties

Installation

⚠ WARNING: OPEN AND LOCK UNIT DISCONNECT TO PREVENT INJURY OR DEATH FROM ELECTRICAL SHOCK OR CONTACT WITH MOVING PARTS.

1. Remove filter access panel, evaporator blower compartment access panel, heat compartment access panel and left center post.
2. Remove or raise roof up in order to mount Froststat and insert capillary tube into coil.

Note: Before mounting Froststat[™], uncoil and straighten three feet of the end of the capillary tube.

2. Mount Froststat control on Froststat mounting bracket with 2 8-32 X.50 screws. See Figure 1, 2 or 3 for bracket and Froststat configuration.
3. Uncoil and straighten three feet of the end of the capillary tube.
- 4.

Downflow discharge units: Refer to Figure 1

To create a channel for the capillary tube to be inserted proceed as follows. Locate the capillary tube insertion hole on the top of coil blockoff. Using a 1/8 diameter rod with a tapered or rounded end, gently push the rod downward parting the aluminum fins forming a channel between the first and second row of tubes. The channel should run from the top to the bottom of the coil. Insert the end of capillary tube in the cap tube insertion hole on the top of evaporator coil blockoff. Feed the capillary tube into channel. The end of the capillary tube should be in the lower 1/3 of the coil.

Horizontal discharge units: Refer to Figure 2 or 3

To create a channel for the capillary tube to be inserted proceed as follows. Measure approximately 6 inches from the edge of the coil for the capillary tube insertion point. Using a 1/8 diameter rod with a tapered or

rounded end, gently push the rod downward parting the aluminum fins forming a channel between the first and second row of tubes. The channel should run from the top to the bottom of the coil. Insert the end of capillary tube in the cap tube insertion hole on the top of evaporator coil blockoff. Feed the capillary tube into channel. The end of the capillary tube should be in the lower 1/3 of the coil.

4. To mount the Froststat and bracket assembly:

Refer to Figure 1 for Downflow discharge units for mounting location. Refer to Figure 2 or 3 depending on the unit tonnage for Horizontal discharge units for mounting location.

5. Position Froststat and bracket assembly over engagement holes. Secure with 2 screws, 10-16 X .50. Refer to Figure 1, 2 or 3 depending on tonnage and discharge.

6. To prevent kinking of the capillary tube, carefully hand form a radius bend in the capillary tube at the point it enters the coil channel.

7. Connect the wire 105A and wire 106A to the ReliaTel Froststat™ terminals 1 and 2.

Note: Secure all wiring away from live terminals, sharp edges and hot surfaces with wire ties (provided with the kit).

8. Replace filter access panel, evaporator blower compartment access panel, heat compartment access panel and left center post.

Figure 1

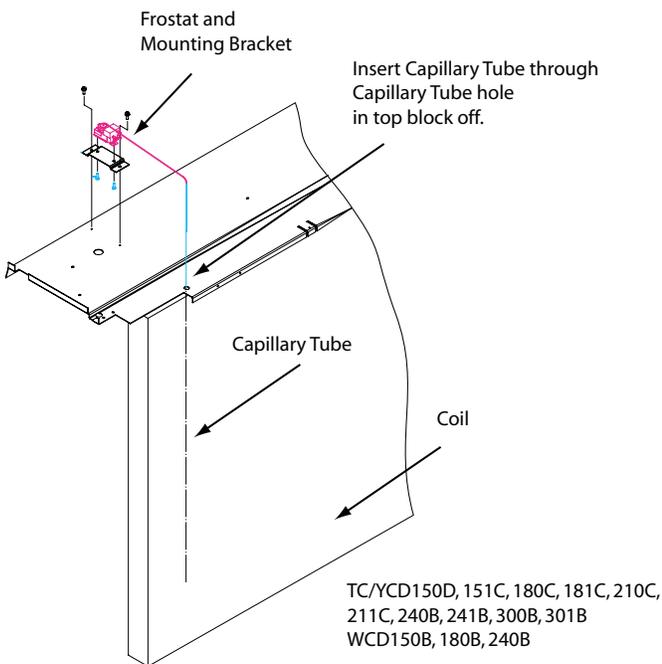
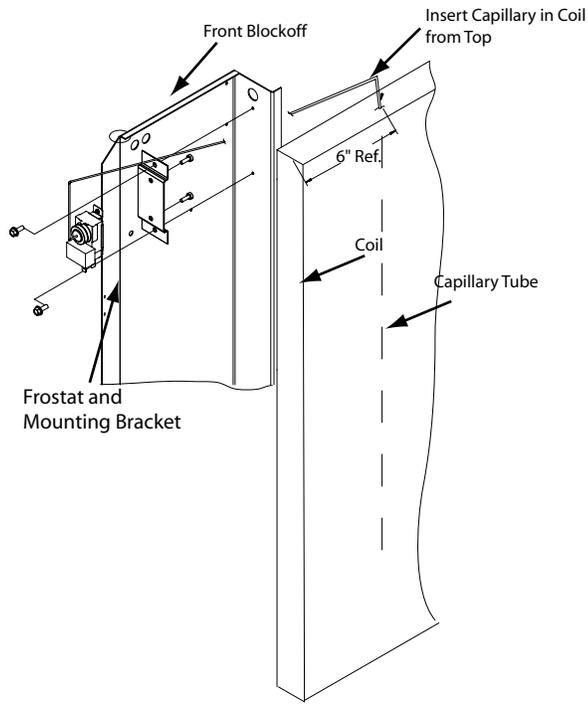
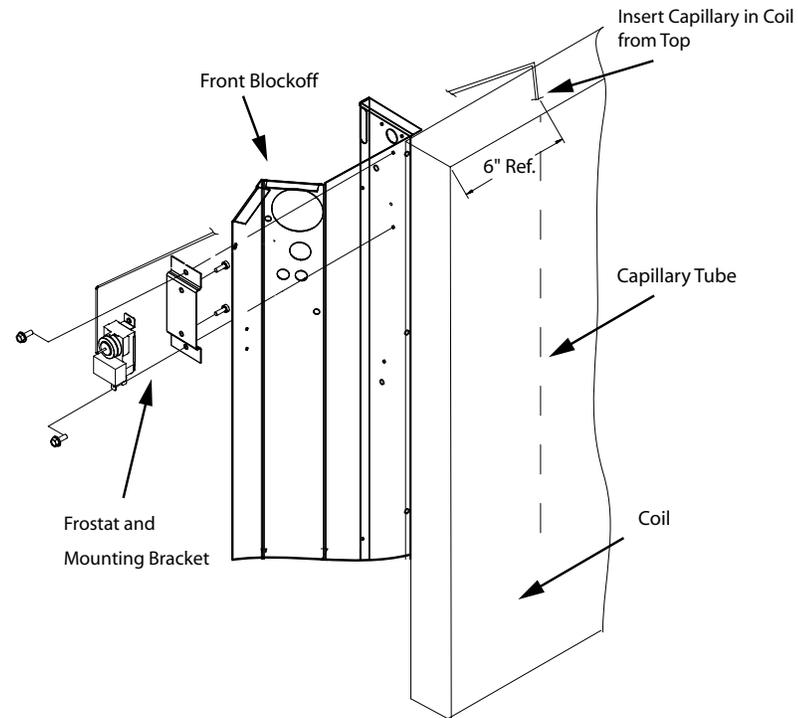


Figure 2



TC/YCH150D, 151C, 180B, 210C,
WCD150B, WCD180B

Figure 3



TC/YCH181C, 211C, 240B, 241B,
300B, 301B
WCD240B

