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## **Greenwood Technical Bulletin GTB0807.C – Heat Retention**

Dear Greenwood Dealer:

Under our continuous improvement efforts, we are providing you with this technical bulletin regarding improved performance on all new and existing Greenwood Furnace Model 100 / 200 / 300 products. The information contained in this technical bulletin serves as an addendum to all other bulletins and owner's manuals dated prior to the date of this bulletin.

This Technical Bulletin provides detailed information on how to preserve the internal Greenwood Furnace temperature in a 'fuel out' situation. This retained heat mitigates build-up on the internal manifold as well as enabling additional radiant heat transfer from the thermal storage in the furnace's refractory.

The proper use of the information contained in this Greenwood Technical Bulletin:

- Preserves internal furnace temperatures in a 'fuel out' situation
- Improves overall unit performance and mitigates build-up on manifold
- Extends radiant heat transfer
- Improves long-term performance

The information is provided in the form of a parts list and wiring diagram. As a service to our dealers, a kit containing all of the listed parts may be purchased from Greenwood.

Please do not hesitate to contact our support team with any questions.

Regards,

A handwritten signature in black ink, appearing to read "Michael Kuehner", is written over a white background.

Michael Kuehner  
Vice President  
Greenwood Technologies, LLC  
877.436.6191

Enclosure(s):  
Greenwood Furnace Heat Retention Kit Presentation

# Technical Bulletin - GTB0807.C

## Greenwood Furnace Heat Retention Kit

# Heat Retention: Purpose and Applications



## Purpose:

When the fuel in the firebox has been used up, the electronic controller shuts the damper door to prevent heat loss up the chimney. Heat in the furnace's refractory is preserved. Upon reloading the furnace, a manual reset button is pressed and the damper reopens. The Heat Retention Kit:

- ❑ Preserves internal furnace temperatures in a 'fuel out' situation.
- ❑ Mitigates build-up on manifold in a 'fuel out' situation.
- ❑ Enables radiant heat transfer during fuel out situation from the furnaces' refractory thermal storage.

## Applications:

- ❑ Greenwood Series Models: 100, 200, and 300
- ❑ Absolute "should have" for all installations.
- ❑ NOTE: Must not be used as a primary controller. Disabling the primary control aquastat will void the warranty and safety certifications.

## Intended Audience:

- Authorized dealers or installers

## Skills Required:

- Electrical

## Estimated Time Required:

- 30 minutes to 60 minutes

# Heat Retention Kit: Parts List



## Electronic Controller

### Parts Provided with Kit:

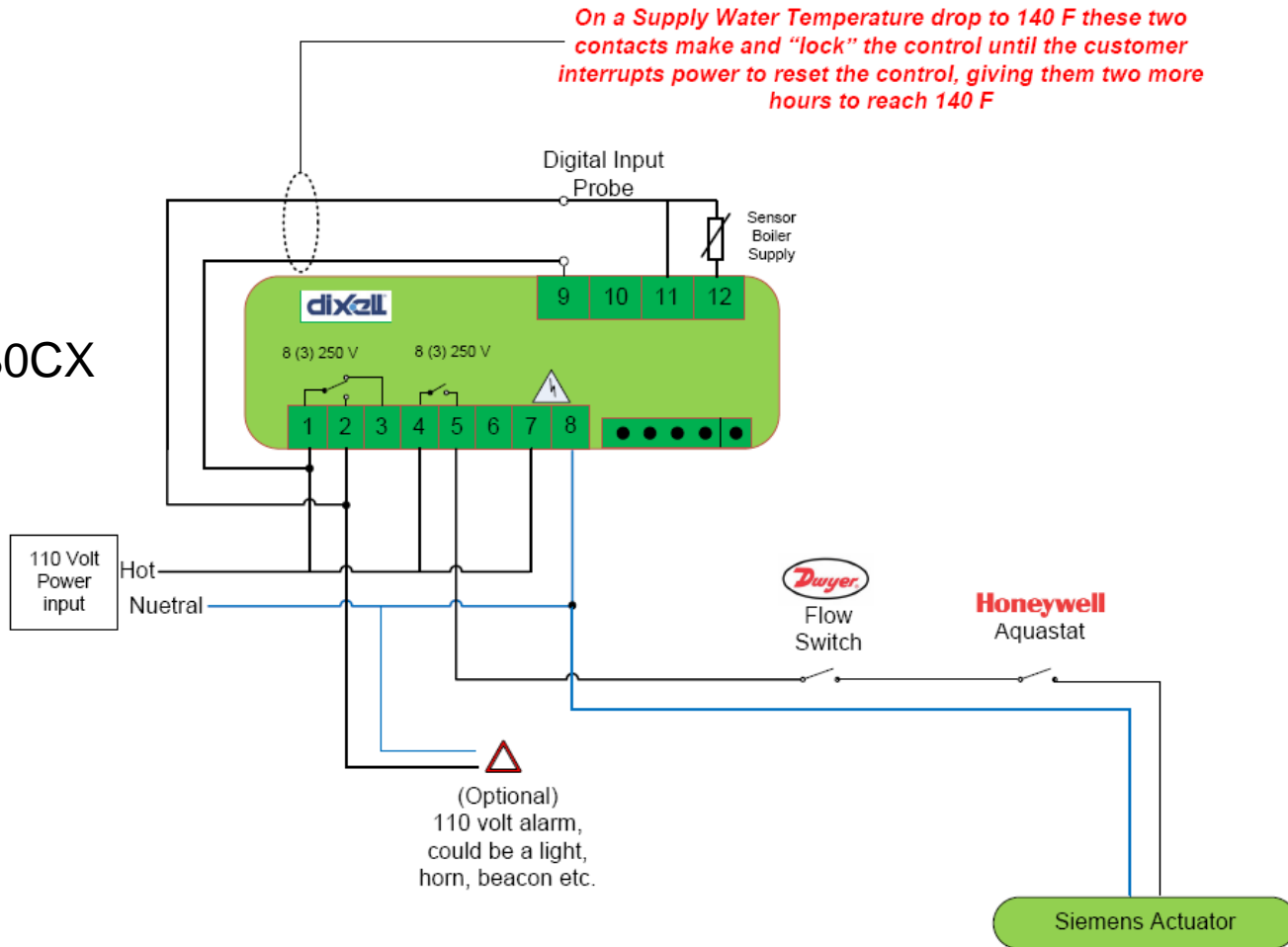
- Electronic Controller: Dixell XR30CX + Programming
- Controller Housing
- Housing mounting screws
- Digital probe
- Wires to digital probe

### Installer Provided Parts:

- Wires to: Junction box (for hooking up with flow switch, aquastat, and damper actuator)
- Power cord for controller
- Conduit and fittings

# Heat Retention Kit: Wiring Diagram

XR30CX



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