**WARNING**

Electric Shock Hazard. Can cause injury or death.
Foil-faced insulation has conductive characteristics similar to metal. Be sure there are no electrical connections within 1/2" of the insulation. If the foil-faced insulation comes in contact with electrical voltage, the foil could provide a path for current to pass through to the outer metal cabinet. While the current produced may not be enough to trip existing electrical safety devices (e.g., fuses or circuit breakers), the current can be enough to cause an electrical shock hazard that could cause personal injury or death.

**WARNING**

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a licensed professional HVAC installer or equivalent, service agency, or the gas supplier.

---

### INSTALLATION INSTRUCTIONS

**ECB38 Series Units**

**ELECTRIC HEAT SECTIONS**

507805-01
12/2017

### Shipping and Packing List

Package 1 of 1 contains:

1 – Assembled electric heat section
1 – Bag assembly containing the following:
  - Screws - 6 each
  - Wiring diagram - 1 each
  - Circuit breaker cover - 1 each
2 – Adhesive-backed foam seals

Check equipment for shipping damage; if found, immediately contact the last carrier.

---

**IMPORTANT INFORMATION FOR INSTALLER**

**CONFIGURE ELECTRIC HEAT**

ELECTRIC HEAT WILL NOT OPERATE IF IT IS NOT CONFIGURED (SET UP) THROUGH THE AIR HANDLER CONTROL (AHC).
SEE CONFIGURATION PROCEDURE, FIGURE 12 ON PAGE 9.

**IMPORTANT: PRIOR TO RUNNING THE iComfort WiFi® OR iComfort® S30 INSTALLER SETUP, ELECTRIC HEAT MUST BE MANUALLY CONFIGURED.**
**DETAIL C**

The Air Handler Control (AHC) has two screw terminals marked discharge air sensor. The sensor is required for EvenHeat operation and must be ordered separately (Catalog # 88K38) and field-installed.

**DISCHARGE SENSOR (DAT)**

**TEMPERATURE RESISTANCE CHART**

<table>
<thead>
<tr>
<th>TEMP °F</th>
<th>RESISTANCE (OHMS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>34,566</td>
</tr>
<tr>
<td>40</td>
<td>26,106</td>
</tr>
<tr>
<td>50</td>
<td>19,904</td>
</tr>
<tr>
<td>60</td>
<td>15,313</td>
</tr>
<tr>
<td>70</td>
<td>11,884</td>
</tr>
<tr>
<td>80</td>
<td>9,298</td>
</tr>
<tr>
<td>90</td>
<td>7,332</td>
</tr>
<tr>
<td>100</td>
<td>5,826</td>
</tr>
</tbody>
</table>

Fasten the probe bracket to the plenum with two self-tapping sheet metal screws.

**NOTE** - EvenHeat mode cannot be enabled with Harmony III because each control is required to use its own discharge air sensor.

**CBA38MV AIR HANDLER CONTROL**

**LENNOX CATALOG # 16B27**

Connect wires to discharge air sensor terminal on Air Handler Control.

**FIGURE 1. Component Connections**
The ECB38 series electric heat sections provide field-installed electric heat for the CBA38MV series air handler unit. ECB38 electric heat sections are available in single-phase and three-phase voltages. Single-phase ECB38 heat sections are equipped with either terminal blocks or circuit breakers.

**General Information**

These instructions are a general guide and do not supersede local codes. Local authorities having jurisdiction should be consulted before installation. Read these instructions thoroughly before starting installation. This electric heat section and all other equipment used in the HVAC system must be installed by a licensed professional installer, or equivalent. You must follow federal, state, and local codes while you install this or any other HVAC equipment.

Be sure to disconnect all power to the unit before you install or service this equipment. Use proper tools and protective equipment during installation and service.

Installation of Lennox air handlers with or without optional electric heat must conform with standards in the National Fire Protection Association (NFPA) Standard for Installation of Air Conditioning and Ventilation Systems NFPA No. 90A, and Standard for Installation of Resident Type Warm Air Heating and Air Conditioning System, No. 90B, the manufacturer’s installation instructions, and local municipal building codes.

**Heat Section Installation**

Before installing the electric heat section, check the unit rating plate to ensure that the unit meets the job requirements, that proper electrical power is available, and that proper duct clearances are maintained.

**NOTE** - It is easier to install the ECB38 heat section inside the air handler unit before the unit is set and the plenum is attached.

1. Shut off all power to the air handler. More than one disconnect may be required.
2. Remove air handler access panel.
3. Disconnect and discard the 9-pin connector currently attached to the air handler control.

4. Loosen the two screws (see figure 1, detail A) securing the air handler control L-bracket mounting plate, and lift the plate off the screws. Pull the plate forward and let it suspend in front of the unit to allow access to the electric heat knockout.

Measure the length and width of the backing plate of the electric heat section to be installed in the air handler. Remove the appropriate electric heat knockout in the air handler vestibule panel to match the electric heat section being installed.

5. Remove the electric heat knockout from the air handler vestibule panel to accommodate the heater being used.

6. Slide the electric heat section into the air handler as illustrated in figure 3. Be careful that the heating elements do not rub against the sheet metal opening when they slide into the air handler. The hole(s) on each side of the heater line up with holes in the air handler control box. Secure the electric heater into place with the screws that are provided in the bag assembly.

7. Reinstall the air handler control L-bracket mounting plate by lifting it back in place. Tighten the two screws to secure in place.

8. Plug the 9-pin connector from the electric heat section onto the air handler control 9-pin receptacle as illustrated in figure 1, detail B.
Circuit Breaker Installation

**FIGURE 4. Circuit Breaker Seal and Patch Plate Installation**

**PATCH PLATE**
- (Shipped installed on CB unit)
- Patch plate shown with longest section on the right side. Patch plate may be factory installed with long section on the left side.

**CIRCUIT BREAKER SEAL**
- (Shipped with electrical heat and field installed)
- Dotted lines are perforations

**ECB38-25CB**
- Side of unit
  - Break at this point
  - Discard

**ECB38-4CB, ECB38-5CB, ECB38-6CB, ECB38-8CB, ECB38-9CB**
- Side of unit
  - Rotate 180° and install over opening
  - Long section
  - Break at this point
  - Discard

**ECB38-12.5CB, ECB38-15CB, ECB38-20CB**
- Side of unit
  - Rotate 180° and install over opening
  - Long section
  - Break at this point
  - Discard

**ECB38-8CB 3 Ph, ECB38-10CB 3 Ph, ECB38-15CB 3 Ph**
- Side of unit
  - Long section
  - Break at this point
  - Discard

**ECB38-20CB 3 Ph, ECB38-25CB 3 Ph**
- Side of unit
  - Long section
  - Break at this point
  - Discard

**FIGURE 5. Circuit Breaker Heater and Patch Plate Configuration (CBA38MV)**
1 - Install the circuit breaker on the air handler deck flange as illustrated in figure 4. Use the provided six screws to secure the circuit breaker.

**NOTE** - When applied in the downflow position, the circuit breakers must be rotated to the UP position. See figure 6 and follow the procedure below:

A - Disconnect power to the unit if present.
B - Remove the screw and slide the breakers off the mounting rail.

**NOTE** - You may need to remove the wire tie closest to the circuit breaker to allow rotation.
C - Rotate the circuit breaker 180°.
D - Slide the circuit breaker back on the rail and secure in place with previously removed screw.

IN DOWNFLOW APPLICATIONS, CIRCUIT BREAKERS MUST BE ROTATED 180° TO THE UP POSITION.

![Figure 6. Typical Electric Heat Section with Circuit Breakers](image)

**Circuit Breaker Cover Installation**

If the air handler is installed in an unconditioned space, the provided circuit breaker cover must be installed.

1 - Use isopropyl alcohol to clean the surface that the circuit breaker cover will be attached to.

2 - Remove paper backing from seal around perimeter of circuit breaker cover (figure 8).

![Figure 7. Circuit Breaker Location](image)

**Discharge Air Temperature Sensor**

The Air Handler Control (AHC) has two screw terminals marked *Discharge Air Sensor*. The sensor is REQUIRED for EVENHEAT operation, is field-mounted and must be ordered separately (Lennox Catalog # 88K38).

The air handler control reads the discharge air temperature sensor and initiates the following actions:

- In EVENHEAT mode the control turns ON or OFF the electric heating elements during the heat demand to maintain a specified temperature range at the discharge air sensor.

![Figure 8. Remove Paper Backing](image)

**FIGURE 8. Remove Paper Backing**

3 - Run a bead of clear silicone around the perimeter of the circuit breaker cover to seal any gaps between the cabinet access door and the circuit breaker cover.

4 - Position the breaker cover over the air handler circuit breaker opening (figure 9).

![Figure 9. Circuit Breaker Cover Installation](image)

**FIGURE 9. Circuit Breaker Cover Installation**

**IMPORTANT**

Confirm air tight seal between breaker cover and air handler access panel. Apply a thin silicone bead to the adhesive back seat to ensure air tight seal. Failure to seal circuit breaker cover will allow warm moist air to be pulled into control panel which can create condensation to form on the circuit breaker and other electrical components within the control panel.
• Sends discharge temperature status message when operating in EVENHEAT mode.

• Sends discharge air sensor temperatures to be displayed on the Air Handler Control when operating in EVENHEAT mode.

The discharge air sensor should be mounted downstream of the electric heat elements and indoor air handler as illustrated in figure 1, detail C. It must be placed in a location with unobstructed airflow, where other accessories (such as humidifiers, UV lights, etc.) will not interfere with its accuracy.

Electrical Connections

**IMPORTANT**

**USE COPPER CONDUCTORS ONLY**

**NOTE** - Refer to the nameplate on the air handler unit for minimum circuit ampacity and maximum overcurrent protection size.

The air handler units are provided with openings to be used with 1-1/2 inch trade size (1-31/32 inch diameter) conduit.

Select the proper supply circuit conductors in accordance with tables 310-16 and 310-17 in the National Electric Code, ANSI/NFPA No. 70 or tables 1 through 4 in the Canadian Electric Code, Part I, CSA Standard C22.1.

**AIR HANDLER CONTROL 9-PIN CONNECTOR**

Wiring connections between the air handler and the ECB38 electric heat section are made with an eight wire harness. See table 1 for wire designations.

**TABLE 1. Electric Heat Connectors**

<table>
<thead>
<tr>
<th>Position</th>
<th>Function / Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Heat stage 1 relay coil</td>
</tr>
<tr>
<td>2</td>
<td>Heat stage 2 relay coil</td>
</tr>
<tr>
<td>3</td>
<td>Relay coil return</td>
</tr>
<tr>
<td>4</td>
<td>Heat stage 3 relay coil</td>
</tr>
<tr>
<td>5</td>
<td>Heat stage 4 relay coil</td>
</tr>
<tr>
<td>6</td>
<td>Heat stage 5 relay coil</td>
</tr>
<tr>
<td>7</td>
<td>L1 230VAC supply from heater kit</td>
</tr>
<tr>
<td>8</td>
<td>L2 230VAC supply from heater kit</td>
</tr>
<tr>
<td>9</td>
<td>Not Used</td>
</tr>
</tbody>
</table>

**TABLE 2. Recommended Blower Speed Tap Selection**

<table>
<thead>
<tr>
<th>BLOWER COIL</th>
<th>COOL</th>
<th>HEAT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AC</td>
<td>HP</td>
</tr>
<tr>
<td></td>
<td>COOL PIN #2</td>
<td>HEAT PIN #4</td>
</tr>
<tr>
<td>-018</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-024</td>
<td>COOL PIN #3</td>
<td>HEAT PIN #4</td>
</tr>
<tr>
<td>-030</td>
<td>COOL PIN #3</td>
<td>HEAT PIN #3</td>
</tr>
<tr>
<td>-036</td>
<td>COOL PIN #3</td>
<td>HEAT PIN #3</td>
</tr>
<tr>
<td>-042</td>
<td>COOL PIN #3</td>
<td>HEAT PIN #3</td>
</tr>
<tr>
<td>-048</td>
<td>COOL PIN #2</td>
<td>HEAT PIN #2</td>
</tr>
<tr>
<td>-060</td>
<td>COOL PIN #3</td>
<td>HEAT PIN #3</td>
</tr>
</tbody>
</table>

**TABLE 3. Recommended Blower Speed Tap Selection**

<table>
<thead>
<tr>
<th>BLOWER COIL</th>
<th>MIX MATCH SPEED TAP SELECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>COOL</td>
</tr>
<tr>
<td></td>
<td>AC</td>
</tr>
<tr>
<td>-042 with 2-ton HP</td>
<td>COOL PIN #1 minus</td>
</tr>
<tr>
<td>-048 with 3-ton HP</td>
<td>COOL PIN #1 minus</td>
</tr>
</tbody>
</table>

2 - Restore power to the unit with room thermostat set to OFF.

3 - Unit can be configured in either Standard Heat or EVENHEAT Mode. See Configuring/Detecting Heat Section flow diagram on page 12 for set up.

4 - Affix the wiring diagram sticker to blower scroll aligned with CB unit wiring diagram sticker.

5 - The air handler access panels are factory supplied, and they have a patch plate over the circuit breaker opening. Remove the circuit breaker patch plate from the air handler access panel.

6 - Replace the air handler compartment access cover.

7 - Choose the appropriately sized adhesive-backed circuit breaker seal and remove any perforated sections (if needed). Apply the seal to the outside of the air handler access panel so that the seal is snug around the circuit breakers (see figure 4).

8 - Break the patch plate for the specific size of electric heat unit / air handler unit that you are installing as illustrated in figure 5. Discard the unused piece of patch plate.

9 - Secure the patch plate on the air handler access door.

10 - Set the thermostat to desired setting.
Configuring Unit

This section identifies the requirements for configuring the air handler unit for unit size, heat mode selection, EVENHEAT operation and Heat Pump/Cooling Operations.

Air Handler Control Checkout

Power-up: Unit Size Code (Number or letter) displayed represents unit size code (air handler model size and capacity). If three horizontal bars display, Air Handler Control (AHC) does not recognize unit size code (air handler model size and capacity).

AHC recognizes Unit Size Code?

No (Display Alarm Code 302)

After all electric heat installations, AHC must be manually configured to detect number of heat sections. Refer to Configuring/Detecting electric heat sections flow diagram, Air Handler or ECB38 Electric Heat installation.

Which Heat Mode?

Standard

EVENHEAT

W1 Call?

No

Yes

Refer to Heat Pump or Cooling Sequence of Operation flow diagrams, Air Handler or ECB38 Electric Heat installation instructions.

Number of Heat Sections Detected?

T-STAT CALL ONE (H1) TWO (H1-H2) THREE (H1-H3) FOUR (H1-H4) FIVE (H1-H5)

W1 H1 H1 H1 H1 AND H2 H1 AND H2

W2 H2 H1 H3 H3 AND H4

W3 H2 H2 H4

A call for electric heating first, second or third stage is initiated when 24 VAC (R) is detected on W1, W2 and W3 inputs on AHC. (Factory mounted metal jumpers connect W1 to W2 and W2 to W3.)

At the completion of each heat section demand (W1, W2, and W3), the control board will immediately de-energize the corresponding pilot relay(s).

NOTE - If the call for lower heat section is removed, AHC will automatically de-energize higher heat sections.

Indoor blower will immediately start to deliver CFM as set by heating mode jumper on board with activation of first electric heat pilot relay.

At the completion of all heating demands, the indoor blower will run for an additional 10 seconds before de-energizing.

22 VDC pilot relays on board are energized one at a time. There is a minimum of 10 seconds delay between pilot relay activations.

NOTE - AHC will not recognize higher heat section demand if lower heat demand is not present.

Refer to Configuring Unit Size Codes flow diagram, air handler or ECB38 Electric Heat installation instructions.

Important: Field replacement controls may need to be manually configured to validate air handler unit size code.

FIGURE 10. Air Handler Control Checkout
Configuring Unit Size Codes
(Model Number)

Power-up - Unit Size Code (number or letter) displayed represents unit size code (air handler model size and capacity). If three horizontal bars display, Air Handler Control (AHC) does not recognize unit size code (air handler model size and capacity).

To enter unit size code configuration, push and hold button next to single character display until dash symbol appears, then release button.

Solid dash starts blinking on single character display.

Push and hold button until the solid P symbol is displayed on the single character display, then release button. This mode allows the user to select a unit size code (number or letter) that matches the air handler model size and capacity. IMPORTANT: Field replacement controls may need to be manually configured to validate air handler unit size code.

Solid P starts blinking on single character display.

Push and hold button to allow AHC to display unit size code (letter or number) for each different air handler model for three seconds.

When the correct unit size code is displayed, release button. Selected code will flash for 10 second period. During that period, hold down push button until code stops blinking. AHC will store code in memory and will automatically exit configuration and reset.

If ten second period expires or push button is held less than three seconds, AHC will automatically exit configuration and go into IDLE mode without storing unit size code. If this happens, configuration sequence must be repeated.

Verify that the selected unit size code is correct and stored by cycling the 24 volt power to the AHC. (During power-up of the AHC, the single character display will show the stored unit size code. If three horizontal bars display, AHC did not store the unit size code. If this happens, configuration sequence must be repeated.)

UNIT SIZE CODE

<table>
<thead>
<tr>
<th>CODE</th>
<th>AIR HANDLER MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>CBA38MV-018/024</td>
</tr>
<tr>
<td>C</td>
<td>CBA38MV-030</td>
</tr>
<tr>
<td>E</td>
<td>CBA38MV-036</td>
</tr>
<tr>
<td>F</td>
<td>CBA38MV-042</td>
</tr>
<tr>
<td>H</td>
<td>CBA38MV-048</td>
</tr>
<tr>
<td>Y</td>
<td>CBA38MV-060</td>
</tr>
</tbody>
</table>

FIGURE 11. Configure Unit Size Codes
Heat Mode Selection - Configuring / Detecting Electric Heat Sections

**IMPORTANT:** All electric heat installations require the Air Handler Control (AHC) to be manually configured to detect number of heat sections.

**NOTE -** All field replacement AHC will require configuring/detecting electric heat sections.

Which Heat Mode?

- **Standard**
- **EVENHEAT**

<table>
<thead>
<tr>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AHC in Idle Mode</strong> (No heating cooling or indoor fan operation)</td>
</tr>
<tr>
<td>To enter electric heat configuration, push and hold button next to single character display until dash symbol (solid bar) appears, then release button.</td>
</tr>
</tbody>
</table>

- Set desired Heating Mode Blower Speed jumper pin.
- Electric heat is stages by room thermostat. (AHC comes with factory jumper between W1/W2 and W2/W3)
- Refer to Air Handler Control Checkout flow diagram for operation.

**Configuration**

- Solid dash starts blinking on single character display.
- Push and hold button until the solid H symbol is displayed on the single character display, then release button.

**AHC in Idle Mode**

- Set desired Heating Mode Blower Speed jumper pin.
- Install and wire discharge air temperature sensor.
- Set desired Target Discharge Temperature jumper pin. If jumper pin is missing or discharge air temperature sensor is not detected, AHC defaults to Standard Heat mode. Target settings are 85, 100, 115 and 130°F
- Refer to EVENHEAT Operation flow diagram for operation.

**AHC in Idle Mode**

- Turn room thermostat to OFF.

**AHC in Idle Mode**

1. AHC will start the indoor blower motor to the selected heat jumper speed setting and cycle the electric heat relays ON to automatically detect number of electric heat sections. (Electric heat section may be wired to energize more than one element)

2. AHC waits for maximum of ten seconds to detect electric heat 22 volt DC relay coils are energizing:
   - A If relay coil current is detected within ten seconds, AHC will show a "1" on the single character display indicating that the first stage has been detected. As each additional heat section is detected, single character display on the AHC will display that electric element number. (Example: Last number displayed by the single character display is 3, the AHC is configured to operate three electric heat sections.)
   - B If relay coil current is not detected within ten seconds, the AHC will exit the test mode and resume operation with electric heat disabled.

3. AHC will automatically exit configuration when completed. To verify that the number of electric sections detected matches the installed electric heat package, the field MUST CONFIRM that the last number the single character displayed before exiting the Configuring/Detection mode matches the number of installed electric heat sections. AHC stores the number of electric heat stages in non-volatile memory.

4. Verify that the indoor blower motor will continue to operate for an additional 30 seconds.

**NOTE -** If AHC push button is pushed or power is cycled on AHC is unable to verify all 22 volt DC electric heat relay(s) were energized using electric heater detection, configuration will be stopped. Configuration function must be repeated.

**FIGURE 12. Heat Mode Selection**
### EVENHEAT Operation

#### Inputs

<table>
<thead>
<tr>
<th>Room Thermostat Demand</th>
<th>Target Discharge Air Temperature Set at 85°F</th>
<th>Target Discharge Air Temperature Set at 100°F</th>
<th>Target Discharge Air Temperature Set at 115°F/130°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>Heat Pump First Stage</td>
<td>Heat Pump First Stage</td>
<td>Heat Pump First + First Electric Heat Section (H1)</td>
</tr>
<tr>
<td>Y1 + Y2</td>
<td>Heat Pump First and Second Stage</td>
<td>Heat Pump First and Second Stage + First Electric Heat Section (H1)</td>
<td>Heat Pump First and Second Stage + First Electric Heat Section (H1) + Second Electric Heat Section (H2) if number of electric heater sections detected is more than two.</td>
</tr>
<tr>
<td>Y1 + W1 and/or W2</td>
<td>Heat Pump First Stage + First Electric Heat Section (H1)</td>
<td>Heat Pump First and Second Stage + First Electric Heat Section (H1)</td>
<td>Heat Pump First and Second Stage + First Electric Heat Section (H1) + Second Electric Heat Section (H2) if number of electric heater sections detected is more than two.</td>
</tr>
<tr>
<td>Y1 and Y2 + W1 and/or W2</td>
<td>Heat Pump First and Second Stage + First Electric Heat Section (H1)</td>
<td>Heat Pump First and Second Stage + First Electric Heat Section (H1) + Second Electric Heat Section (H2) if number of electric heater sections detected is more than two.</td>
<td>Heat Pump First and Second Stage + First Electric Heat Section (H1) + Second Electric Heat Section (H2) if number of electric heater sections detected is more than two.</td>
</tr>
<tr>
<td>W1 and/or W2</td>
<td>First Electric Heat Section (H1)</td>
<td>First Electric Heat Section (H1) + Second Electric Heat Section (H2) if number of electric heater sections detected is more than two.</td>
<td>First Electric Heat Section (H1) + Second Electric Heat Section (H2) if number of electric heater sections detected is more than two.</td>
</tr>
</tbody>
</table>

#### Outputs

- **Heat pump first or second stage or electric heat demand will start the Air Handler Control indoor blower at CFM value based on tables found in installation instructions.**

- **Heat Pump and electric heat demand?**
  - **Yes:** Increase target discharge air temperature by 15°F
  - **No:**
    - **Timer delays for 120 seconds:**
      - **One Stage:** Last room thermostat Heat up- staging action
      - **More than one stage:** Timer delays for 150 seconds

- **Timer delays for 150 seconds**

---

**FIGURE 13. EVENHEAT Operation (1 of 2)
Discharge air temperature is within target range?

Measured discharge air temperature is above or below target range?

Note 1 Activation delay
- 120 seconds if one heat stage is activated or deactivated
- 150 seconds if more than one stage is activated or deactivated.

Start Timer Delay (Note 1)

Delay Timer Finished or last change was up-stage

No

Delay Timer Finished or last change was down-stage

Yes

Electric heat ON

W call with one Electric Heat Section ON

Y1 (with or without Y2) + W1 and W2

Increase heat demand.

Adjust Target Discharge Air Temperature

Heat Pump OFF
Discharge air temperature sensor setting on the Air Handler Control will remain at set point on W1 demand and be increased 15°F for W2 demand.

Heat Pump ON
Discharge air temperature sensor setting on Air Handler Control will remain at set point. W1 demand will increase set point 15°F. W2 demand will increase set point an additional 15°F. (Total of 30°F)

Adjust Target Discharge Air Temperature

Above

No

Turn OFF Electric Heat Section

Below

No

Y1 ON and Y2 OFF

More Electric Heat available

Yes

Activate Y2

Stop Delay Timer

Change in Heat demand from room thermostat?

No

Yes

Turn ON one Electric Heat section

Adjust Target Discharge Air Temperature

NOTE - Optional Outdoor Thermostat (Wired between R and W3) will lockout electric elements 3, 4 and 5.

FIGURE 14. EVENHEAT Operation (2 of 2)
Electric Heat Wiring Diagram Cross Reference

The following table provides a cross-reference for diagrams for specific electric heat models.

**TABLE 4**

<table>
<thead>
<tr>
<th>Electric Heat Section Model</th>
<th>Wiring Diagram #</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECB38-4-5-6-4CB-5CB-6CB-P</td>
<td>537951-01</td>
</tr>
<tr>
<td>ECB38-8-9-8CB-9CB-P</td>
<td>537955-01</td>
</tr>
<tr>
<td>ECB38-12.5CB-15CB-P</td>
<td>537960-01</td>
</tr>
<tr>
<td>ECB38-20CB-P</td>
<td>537962-01</td>
</tr>
<tr>
<td>ECB38-25CB-P</td>
<td>537963-01</td>
</tr>
<tr>
<td>ECB38-8-10-15CB-Y</td>
<td>537964-01</td>
</tr>
<tr>
<td>ECB38-20CB25CB-Y</td>
<td>537957-01</td>
</tr>
</tbody>
</table>