Simple control for year-round comfort and energy savings. This easy-to-operate deluxe comfort command center allows you to match temperature to your family’s lifestyle. Attractive, extra-rugged, highly reliable and accurate, this thermostat’s elegant design will look and perform like new for years to come.

- For up to three-stage heat pump
- Hardware or battery operated
- Large backlit LCD display
- Adjustable maximum heat setpoint
- Adjustable minimum cool setpoint
- Field temperature calibration
- Check filter indicator
- Low battery indicator
- 3 status LEDs
- For up to three-stage heat pump
- Simple operation
SC2210
Non-Programmable Heat Pump Hardwired or Battery Operated

Specifications

Electrical Rating:
- 24 VAC (18-30 VAC)
- 3 VDC, 2 "AA" batteries included
- 1 amp maximum per terminal
- 4 amp minimum total load
- Easy access terminal block

Temperature Control Ranges:
- 45°F to 90°F, Accuracy: ± 1°F

System Configurations:
- For up to three-stage heat/two-stage cool heat pumps

Temperature Control Ranges:
- SC2210: C, L, R, B, O W2, G, E, Y1, Y2, W3
3-Stage Heat Pump Manual Changeover Battery or Hardwired Non-Programmable Electronic Thermostat

- Configurable
- Three Stage Heat Pump Systems
- Backlit Display
- Field Calibration Feature
- Filter Check
- Relay Outputs (minimum voltage drop in thermostat)

- Ideally Suited for:
  - Residential (New Construction/Replacement)
  - Light Commercial

Installation, Operation & Application Guide

For more information on our complete range of American-made products – plus wiring diagrams, troubleshooting tips and more, visit us at www.icmcontrols.com
# Table of Contents

- Parts Diagram ............................................................................................................. 1
- Specifications .................................................................................................................... 2
- Important Safety Information .......................................................................................... 2
- Package Contents/Tools Required ..................................................................................... 2
- To Remove Existing Thermostat ....................................................................................... 3
- To Install Thermostat ....................................................................................................... 3
- Wiring Diagram Conversions ............................................................................................ 5
  - Carrier Split Stream Condensers and Heat Pump Systems ........................................... 5
  - Coleman 3000 Series Heat Pump Systems ..................................................................... 6
  - ComfortMaker CYC Series Heat Pump Systems .......................................................... 7
  - Heil-Quaker 867.814 Series and PH50 Series Heat Pump Systems ............................... 8
  - Payne Reliant and Endura Model Heat Pump Systems ................................................. 9
  - Goodman, Janitrol, Trane/American Standard Heat Pumps .......................................... 11
  - York -E1CS, -E1FB, -E1FH Heat Pump Systems ......................................................... 12
  - Lennox CB19 Heat Pump Systems .............................................................................. 13
  - Lennox HP19 and HP20 Heat Pump Systems ............................................................... 14
  - Lennox HP21 With CB21 PCB Heat Pump Systems ..................................................... 15
  - Lennox HP22 With CB19 PCB Heat Pump Systems ..................................................... 16
  - FHP 1 Heat Pump Systems ............................................................................................ 17
  - FHP 2 Heat Pump Systems ............................................................................................ 18
- Configuration Mode ......................................................................................................... 19
- Terminal Designator Descriptions ................................................................................... 21
- SC2210 Output Chart ...................................................................................................... 21
- Starting the Thermostat .................................................................................................... 21
- LED Indicators ................................................................................................................ 22
- Testing the Thermostat ..................................................................................................... 22
- Mode of Operation .......................................................................................................... 24
- Troubleshooting ............................................................................................................... 25
Specifications

Electrical rating: • 24 VAC (18-30 VAC) • DC Power: 3.0 VDC (2 “AA” batteries included)
• 1 amp maximum per terminal • 4 amp maximum total load

Temperature control range: 45°F to 90°F (7°C to 32°C)  Accuracy: ± 1°F (± 0.5°C)

System configurations: 3-stage heat, 2-stage cool heat pump

Timing: Anti-short Cycle: 5 minutes
Backlight Operation: Battery for 5 seconds, hardwired for 10 seconds

Terminations: C, L, R, B, O, W2, G, E, Y1, Y2, W3

Important Safety Information

WARNING!: Always turn off power at the main power supply before installing, cleaning, or removing thermostat.

• This thermostat is for 24 VAC applications only; do not use on voltages over 30 VAC
• All wiring must conform to local and national electrical and building codes
• Do not use air conditioning when the outdoor temperature is below 50 degrees; this can damage your A/C system and cause personal injuries
• Use this thermostat only as described in this manual

Package Contents/Tools Required

Package includes: SimpleComfort® 2210 thermostat on base, thermostat cover, wiring labels, screws and wall anchors, Installation, Operation and Application Guide

Tools required for installation: Drill with 3/16” bit, hammer, screwdriver
To Remove Existing Thermostat

**ELECTRICAL SHOCK HAZARD** – *Turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position before removing the existing thermostat.*

1. Turn off power to the heating and cooling system by removing the fuse or switching the appropriate circuit breaker off.
2. Remove cover of old thermostat. This should expose the wires.
3. Label the existing wires with the enclosed wire labels before removing wires.
4. After labeling wires, remove wires from wire terminals.
5. Remove existing thermostat base from wall.
6. Refer to the following section for instructions on how to install this thermostat.

To Install Thermostat

**ELECTRICAL SHOCK HAZARD** – *Turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position before removing the existing thermostat.*

**IMPORTANT:** Thermostat installation must conform to local and national building and electrical codes and ordinances.

**Note:** Mount the thermostat about five feet above the floor. Do not mount the thermostat on an outside wall, in direct sunlight, behind a door, or in an area affected by a vent or duct.

1. Turn off power to the heating and cooling system by removing the fuse or switching the appropriate circuit breaker off.
To Install Thermostat (continued)

2. To remove cover, insert and twist a coin or screwdriver in the slots on the sides of the thermostat.
3. Put thermostat base against the wall where you plan to mount it (Be sure wires will feed through the wire opening in the base of the thermostat).
4. Mark the placement of the mounting holes.
5. Set thermostat base and cover away from working area.
6. Using a 3/16” drill bit, drill holes in the places you have marked for mounting.
7. Use a hammer to tap supplied anchors in mounting holes.
8. Align thermostat base with mounting holes and feed the control wires through wire opening.
9. Use supplied screws to mount thermostat base to wall.
10. Insert stripped, labeled wires in matching wire terminals. See “Wiring Diagrams” section of this manual (Pages 5-18).

**CAUTION!**: Be sure exposed portion of wires does not touch other wires.

11. Tighten screws on terminal block. Gently tug wire to be sure of proper connection. Double check that each wire is connected to the proper terminal.
12. Seal hole for wires behind thermostat with non-flammable insulation or putty, or use an ICM insulated wall plate (ACC-WP01).
13. Replace cover on thermostat by snapping it in place.
14. Turn on power to the system at the main service panel.
15. Test thermostat operation as described in “Testing the Thermostat” (Pages 22-24).
SimpleComfort® 2210 Electronic Thermostat Conversion to:
Carrier Split Stream Condensers and Heat Pump Systems

SC 2210 Electronic Thermostat

- R
- Y1
- O
- B
- G
- E
- W2
- L
- C
- Y2
- W3

Carrier Split Stream
Low Voltage Terminal Board

- O
  - 24 VAC, Return
- G
  - Compressor Contactor
- Y
  - Reversing Valve (Cooling Mode)
- R
  - Fan Contactor Circuit
- E
  - Emergency Heating Circuit
- W2
  - 2nd Stage Heating Circuit
- L
  - System Monitor LED
- C
  - 24 VAC, Common
- W3
  - 3rd Stage Heating Circuit
SimpleComfort® 2210 Electronic Thermostat Conversion to:

Coleman 3000 Series Heat Pump Systems

<table>
<thead>
<tr>
<th>Coleman 3000 Low Voltage Terminal Board</th>
<th>SC 2210 Electronic Thermostat</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>R</td>
</tr>
<tr>
<td>Y</td>
<td>Y1</td>
</tr>
<tr>
<td>B</td>
<td>O</td>
</tr>
<tr>
<td>G</td>
<td>B</td>
</tr>
<tr>
<td>E</td>
<td>G</td>
</tr>
<tr>
<td>W2</td>
<td>E</td>
</tr>
<tr>
<td>L</td>
<td>W2</td>
</tr>
<tr>
<td>X</td>
<td>L</td>
</tr>
<tr>
<td>O</td>
<td>X</td>
</tr>
</tbody>
</table>

- 24 VAC, Return
- Compressor Contactor
- Reversing Valve (Heating Mode)
- Fan Contactor Circuit
- Emergency Heating Circuit
- 2nd Stage Heating Circuit
- System Monitor LED
- 24 VAC, Common
SimpleComfort® 2210 Electronic Thermostat Conversion to: ComfortMaker CYC Series Heat Pump Systems

** Note 1: E and W2 terminals jumpered at thermostat.
** Note 2: W2 terminal on Comfortmaker capped at PCB.
** Note 3: X terminal on Comfortmaker capped at PCB.

![Diagram of terminal board connections for SimpleComfort 2210 Electronic Thermostat]

- **R**: 24 VAC, Return
- **Y**: Compressor Contactor
- **O**: Reversing Valve (Cooling Mode)
- **G**: Fan Contactor Circuit
- **W1**: 2nd Stage Heating Circuit
- **W2**: Outdoor Thermostat (Capped)
- **X**: Defrost Sensor (Capped)
- **C**: 24 VAC, Common

Note 1: E and W2 terminals jumpered at thermostat.
Note 2: W2 terminal on Comfortmaker capped at PCB.
Note 3: X terminal on Comfortmaker capped at PCB.
SimpleComfort® 2210 Electronic Thermostat Conversion to:
Heil-Quaker 867.814 Series and PH50 Series Heat Pump Systems

** Note 1: E and W2 terminals jumpered at thermostat.
SimpleComfort® 2210 Electronic Thermostat Conversion to:
Payne Reliant and Endura Model Heat Pump Systems

Payne Reliant and Endura Low Voltage Terminal Board

- **R**: 24 VAC, Return
- **Y**: Compressor Contactor
- **O**: Reversing Valve (Cooling Mode)
- **G**: Fan Contactor Circuit
- **E**: Emergency Heating Circuit
- **W2**: 2nd Stage Heating Circuit
- **L**: System Monitor LED
- **C**: 24 VAC, Common
- **W3**: 3rd Stage Heating Circuit
SimpleComfort® 2210 Electronic Thermostat Conversion to:
Rheem/Ruud: -PGB, -PFA, -PCB, -PLA, and -PKA Series Heat Pump Systems

Rheem/Ruud PGB, PFA, PCB, PLA, PKA Low Voltage Terminal Board

- 24 VAC, Return
- Compressor Contactor
- Reversing Valve (Heating Mode)
- Fan Contactor Circuit
- 2nd Stage Heating Circuit
- System Monitor LED
- 24 VAC, Common
SimpleComfort® 2210 Electronic Thermostat Conversion to:
Goodman, Janitrol, Trane/American Standard Heat Pumps

** Note 1: **E and W2 terminals jumpered at thermostat.
** Note 2: **X2 terminal capped at PCB.
** Note 3: **T terminal capped at PCB.

24 VAC, Return
Compressor Contactor
Reversing Valve (Cooling Mode)
Fan Contactor Circuit
2nd Stage Heating Circuit
24 VAC, Common

Goodman, Janitrol, Trane/American Standard
Low Voltage Terminal Board

SC 2210 Electronic Thermostat
SimpleComfort® 2210 Electronic Thermostat Conversion to:
York -E1CS, -E1FB, -E1FH Heat Pump Systems

** Note 1: E and W2 terminals jumpered at thermostat.

- 24 VAC, Return
- Compressor Contactor
- Reversing Valve (Cooling Mode)
- Fan Contactor Circuit
- 2nd Stage Heating Circuit
- System Monitor LED
- 24 VAC, Common

York -E1CS, -E1FB, -E1FH Low Voltage Terminal Board

SC 2210 Electronic Thermostat

- R
- Y1
- O
- B
- G
- E
- W2
- L
- C
- Y2
- W3
SimpleComfort® 2210 Electronic Thermostat Conversion to:
Lennox CB19 Heat Pump Systems

Lennox CB19 Low Voltage Terminal Board

- **R**: 24 VAC, Return
- **Y**: Compressor Contactor
- **O**: Reversing Valve (Cooling Mode)
- **G**: Fan Contactor Circuit
- **E**: Emergency Heating Circuit
- **W1**: 2nd Stage Heating Circuit
- **L**: System Monitor LED
- **C**: 24 VAC, Common
- **T**: (capped)

SC 2210 Electronic Thermostat

- **R**: 24 VAC, Return
- **Y**: Compressor Contactor
- **O**: Reversing Valve (Cooling Mode)
- **B**: Fan Contactor Circuit
- **G**: Emergency Heating Circuit
- **E**: 2nd Stage Heating Circuit
- **W2**: System Monitor LED
- **L**: 24 VAC, Common
- **C**: (capped)
- **Y2**: (capped)
- **W3**: (capped)
SimpleComfort® 2210 Electronic Thermostat Conversion to:
Lennox HP19 and HP20 Heat Pump Systems

Lennox HP19 and HP20 Low Voltage Terminal Board:

- **V-VR**: 24 VAC, Return
- **M**: Compressor Contactor
- **R**: Reversing Valve (Cooling Mode)
- **F**: Fan Contactor Circuit
- **E**: Emergency Heating Circuit
- **Y**: 2nd Stage Heating Circuit
- **X**: 24 VAC, Common

SC 2210 Electronic Thermostat:

- **R**
- **Y1**
- **O**
- **B**
- **G**
- **E**
- **W2**
- **L**
- **C**
- **Y2**
- **W3**
**SimpleComfort® 2210 Electronic Thermostat Conversion to:**

**Lennox HP21 With CB21 PCB Heat Pump Systems**

<table>
<thead>
<tr>
<th>Lennox HP21 with CB21 PCB Low Voltage Terminal Board</th>
<th>SC 2210 Electronic Thermostat</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-VR</td>
<td>R</td>
</tr>
<tr>
<td>Y1</td>
<td>Y1</td>
</tr>
<tr>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>F</td>
<td>B</td>
</tr>
<tr>
<td>E</td>
<td>G</td>
</tr>
<tr>
<td>W1</td>
<td>E</td>
</tr>
<tr>
<td>L</td>
<td>W2</td>
</tr>
<tr>
<td>X</td>
<td>L</td>
</tr>
<tr>
<td>Y2</td>
<td>C</td>
</tr>
</tbody>
</table>

- 24 VAC, Return
- Compressor Contactor
- Reversing Valve (Cooling Mode)
- Fan Contactor Circuit
- Emergency Heating Circuit
- 2nd Stage Heating Circuit
- System Monitor LED
- 24 VAC, Common
- 2nd Stage Cooling Circuit

24 VAC, Return
Compressor Contactor
Reversing Valve (Cooling Mode)
Fan Contactor Circuit
Emergency Heating Circuit
2nd Stage Heating Circuit
System Monitor LED
24 VAC, Common
2nd Stage Cooling Circuit
SimpleComfort® 2210 Electronic Thermostat Conversion to: Lennox HP22 With CB19 PCB Heat Pump Systems

Lennox HP22 with CB19 PCB Low Voltage Terminal Board

- R-VR: 24 VAC, Return
- M: Compressor Contactor
- R: Reversing Valve (Cooling Mode)
- F: Fan Contactor Circuit
- E: Emergency Heating Circuit
- Y: 2nd Stage Heating Circuit
- L: System Monitor LED
- X: 24 VAC, Common
- Y2: 2nd Stage Cooling Circuit

SC 2210 Electronic Thermostat

- R
- Y1
- O
- B
- G
- E
- W2
- L
- C
- Y2
- W3
**Note**: For units with ECM motors and the 641-065 interface board, connect \textbf{W2} from the thermostat to the \textbf{W1} at the heat pump.

- **R**: 24 VAC, Return
- **Y**: Compressor Contactor
- **O**: Reversing Valve (Cooling Mode)
- **G**: Fan Contactor Circuit
- **E**: Emergency Heating Circuit
- **W**: 2nd Stage Heating Circuit
- **C**: 24 VAC, Common

**SC 2210 Electronic Thermostat**

- **R**: \( R \)
- **Y1**: \( Y1 \)
- **O**: \( O \)
- **B**: \( B \)
- **G**: \( G \)
- **E**: \( E \)
- **W2**: \( W2 \)
- **L**: \( L \)
- **C**: \( C \)
- **Y2**: \( Y2 \)
- **W3**: \( W3 \)
SimpleComfort® 2210 Electronic Thermostat Conversion to:
FHP 2 Heat Pump Systems

** Note 1: ** Jumper from W2 to Y2 for 2 compressor systems without electric heat.

![Diagram of SC 2210 Electronic Thermostat]

- **R**: 24 VAC, Return
- **Y**: Compressor 1 Contactor
- **O**: Reversing Valve (Cooling Mode)
- **G**: Fan Contactor Circuit
- **C**: 24 VAC, Common
- **Y2**: Compressor 2 Contactor

SC 2210 Electronic Thermostat:

- **R**
- **Y1**
- **O**
- **B**
- **G**
- **E**
- **W2**
- **L**
- **C**
- **Y2**
- **W3**
The configuration mode is used to set the SC2210 to match your heating/cooling system. The SC2210 functions with up to 3-stage heat pump systems.

To configure the SC2210, perform the following steps:

1. Slide the Mode switch to the **OFF** position.
2. Remove the cover of the thermostat by gently pulling on one of the corners.
3. Simultaneously hold the SW5 and SW6 buttons in for 5 seconds while the SC2210 is in **OFF** mode.
4. Press the \( \triangledown \) or \( \wedge \) button to change settings within each screen.
5. Press the SW6 button to advance to the next screen.
   * Note: The SW5 button will return you to the previous screen.
6. To exit configuration mode, slide the Mode switch to **Heat** or **Cool**.

### Configuration Mode Settings

The setup screens for Configuration Mode are as follows:

1. **Temperature Scale (F or C)** – Choose Fahrenheit or Celsius.
   - Press the \( \triangledown \) or \( \wedge \) button to select.
   - Press the SW6 button to advance to the next screen.

2. **Temperature Differential – Stage 1** – (1°F to 3°F) (0.5°C to 1.5°C)
   - Set the number of degrees between your “setpoint” temperature and your “turn on” temperature for first stage.
   - Press the \( \triangledown \) or \( \wedge \) button to set differential value.
   - Press the SW6 button to advance to the next screen.

3. **Temperature Differential – Stage 2** – (1°F to 6°F) (0.5°C to 3.0°C)
   - Set the number of degrees between when stage 1 turns on and stage 2 turns on.
   - Press the \( \triangledown \) or \( \wedge \) button to set differential value.
   - Press the SW6 button to advance to the next screen.
4. **Temperature Differential – Stage 3** – (1°F to 6°F) (0.5°C to 3.0°C) – Set the number of degrees between when stage 2 turns on and stage 3 turns on.
Press the ∨ or ∧ button to set differential value.
Press the SW6 button to advance to the next screen.

5. **Staged Off Outputs**
Select whether the outputs for heating and cooling are staged off independently or are satisfied simultaneously.
1 = Economy Mode – Outputs are staged on and off in accordance with set point and differential.
0 = Comfort Mode – Outputs are staged on and all stages cycle off simultaneously when set point is satisfied.

6. **Minimum Cool Setpoint** (45°F to 75°F) (7°C to 24.0°C)
Adjust to control the minimum Cool set temperature allowed.
Press the ∨ or ∧ button to set.
Press the SW6 button to advance to the next screen.

7. **Maximum Heat Setpoint** (55°F to 90°F) (13°C to 32°C)
Adjust to control the maximum Heat set temperature allowed.
Press the ∨ or ∧ button to set.
Press the SW6 button to advance to the next screen.

8. **Room temperature offset** (+9°F to -9°F) (+4.5°C to -4.5°C)
Adjust to calibrate displayed room temperature to match actual room temperature.
**Note:** When not set to 0, ROOM will display
Press the ∨ or ∧ button to select.
Press the SW6 button to advance to the next screen.

9. **Maximum compressor cycles allowed per hour** (-, 2-6)
   - = as many as needed, 2-6 = maximum cycles/hour
Press the ∨ or ∧ button to set.
Press the SW6 button to advance to the next screen.
10. **Filter Check time (300-800, – – –)**
Set Fan Run Time (in hours) when Check Filter is displayed or set to – – – to disable. Press the \( \vee \) or \( \wedge \) button to select.

\*\* Note: After exiting configuration mode, to reset filter counter to zero and clear \( \checkmark \) filter warning, press the \( \vee \) and \( \wedge \) button simultaneously for 5 seconds.

Press the SW6 button to review settings. Slide the Mode switch to Heat or Cool to exit configuration.

---

### Terminal Designator Descriptions

- **R** – 24 VAC hot
- **C** – 24 VAC common
- **O** – cool active reversing valve
- **B** – heat active reversing valve
- **Y1** – 1st stage cool, 1st stage heat
- **W2** – 2nd stage heat
- **Y2** – 2nd stage cool for 2 compressor systems
- **G** – Fan
- **W3** – 3rd stage heat
- **L** – Check indicator
- **E** – 1st stage emergency

---

### SC2210 Output Chart

<table>
<thead>
<tr>
<th></th>
<th>1(^{\text{ST}}) Cool</th>
<th>2(^{\text{ND}}) Cool</th>
<th>1(^{\text{ST}}) Heat</th>
<th>2(^{\text{ND}}) Heat</th>
<th>3(^{\text{RD}}) Heat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat Pump</td>
<td>Y1, G, O</td>
<td>Y1, Y2, G, O</td>
<td>Y1, G, B</td>
<td>Y1, W2, G, B</td>
<td>Y1, W2, W3, G, B</td>
</tr>
<tr>
<td>Emergency Heat HP</td>
<td>N/A</td>
<td>N/A</td>
<td>E, G</td>
<td>E, W2, G</td>
<td>E, W2, W3, G</td>
</tr>
</tbody>
</table>

---

### Starting the Thermostat

**CAUTION!**: Do not use air conditioning when the outdoor temperature is below 50 degrees. This can damage your air conditioning system and cause personal injuries.

1. Move the Fan Auto/On switch to the Auto position.
2. Move the Cool/Off/Heat/Emer switch to Cool or Heat, depending on the season.
There are three LED indicators located on the front of the thermostat. They are designed to inform you about the following:

<table>
<thead>
<tr>
<th>LED</th>
<th>Color</th>
<th>Function</th>
</tr>
</thead>
</table>
| AUX   | Green | • This turns on when the auxiliary (second stage) heating is in operation  
       |       | • It turns on 1-6°F below first stage and is user adjustable (see Configuration, Step 3, Page 19) |
| CHECK | Red   | • When this turns on, a malfunction has occurred somewhere in the heat pump system  
       |       | • Please contact a qualified service technician as soon as possible to check your system |
| EMER  | Red   | • This light turns on whenever the emergency heat is manually selected (Mode switch is in the EMER position)  
       |       | • While in the emergency Heat mode, the heat pump compressor is off, and the emergency heat (same as the auxiliary heat) maintains the setpoint temperature |

Once the thermostat is installed, it should be thoroughly tested.

**CAUTION!:** Do not energize the air conditioning system when the outdoor temperature is below 50 degrees. It can result in equipment damage or personal injury.
Cool Test
1. Slide Mode switch to Cool mode.
2. Adjust set temperature so it is 5 degrees below room temperature.
3. Air conditioning should come on within a few seconds.
4. Adjust the set temperature 2 degrees above the room temperature and the A/C should turn off. There may be a fan delay on your system.
   ✴ Note: There is a five minute time delay to protect the compressor after it turns off. To temporarily bypass the five minute delay, slide the Mode switch to OFF for 2 seconds and then back to Cool.

Heat Test
1. Slide Mode switch to Heat mode.
2. Adjust the set temperature so it is 5 degrees above the room temperature.
3. Heat should come on within a few seconds.
4. Adjust the set temperature so it is 2 degrees below the room temperature and the heat should turn off. There may be a fan delay on your system.
   ✴ Note: There is a five minute time delay to protect the compressor after it turns off. To temporarily bypass the five minute delay, slide the Mode switch to OFF for 2 seconds and then back to Heat.

Emergency Heat Test
1. Slide Mode switch to Emer position (Emer LED lights).
2. Adjust the set temperature so it is 5 degrees above the room temperature. There may be a five minute delay.
3. Second stage heat should come on (Aux LED lights).
4. Adjust the set temperature so it is 2 degrees below the room temperature. Heat should turn off. There may be a fan delay on your system.

(Testing the thermostat continued on Page 24)
(Testing the thermostat continued from Page 23)

**Fan Test**
1. Slide Fan switch to On position.
2. Indoor fan turns on.
3. Slide Fan switch to Auto position.
4. Indoor fan turns off.

**Mode of Operation**

The SC2210 is a multi-stage, heat pump thermostat.

The SC2210 can use 24 VAC or batteries as a power supply. The SC2210 can be hardwired and have no batteries installed in the battery compartment. It can also run on battery power only. When batteries are installed and the thermostat is hardwired, the batteries will run the thermostat during a power outage. When operating on battery power, the backlight will be on for 5 second intervals. When hardwired, the backlight will be on for 10 second intervals.

The thermostat activates the heat pump when the room temperature is below the heat set temperature (by the differential temperature). Auxiliary heat will be activated if the room temperature continues to drop. Third stage heat is activated (on some systems) if the temperature drops further. The heat outputs are staged off (configurable, setting 5, Page 20) as the room temperature increases. The thermostat will not let the compressor come on for five minutes after it turns off. This protects your compressor.

When the room temperature is greater than the cool set temperature (by the differential temperature), the cooling device is activated. Second-stage cooling will be activated if the room temperature continues to rise. The cool outputs are staged off (configurable, setting 5, Page 20) as the room temperature decreases. The thermostat will not let the compressor come on for five minutes after it turns off. This protects your compressor.

The SC2210 has the following operating modes: OFF, Heat, Emergency Heat and Cool. In OFF mode, the thermostat will not turn on heating or cooling devices. In the Heat mode, the thermostat controls the heat pump system. In the Emergency Heat mode, the heat pump is bypassed and auxiliary becomes the primary heat source. In the Cool mode, the thermostat controls the cooling system. The indoor fan can be turned on in all operating modes using the Fan switch.

The SC2210 has an air filter check option also. When the fan run time exceeds the time set in the configuration (step 10, page 21), the filter reminder will be displayed. To reset the filter counter to zero and clear the filter reminder from the display, press the \( \uparrow \) and \( \downarrow \) buttons in simultaneously for 5 seconds.
## Troubleshooting

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No display</td>
<td><strong>For Hardwired Installation</strong> Check for 24 VAC at thermostat; display is blank when 24 VAC is not present <strong>For Battery Installation</strong> Display is blank when batteries are drained or installed incorrectly</td>
</tr>
<tr>
<td>System fan does not come on properly</td>
<td>Verify wiring is correct</td>
</tr>
<tr>
<td>Thermostat turns on and off too frequently</td>
<td>Adjust temperature differential (see “Temperature Differential,” Stage 1, Step 2, Page 19)</td>
</tr>
<tr>
<td>Fan runs continuously</td>
<td>Check fan On/Auto switch, ON position runs indoor fan continuously</td>
</tr>
<tr>
<td>Room temperature is not correct</td>
<td>Verify wall hole is plugged with putty or insulation; calibrate thermostat (see “Configuration,” Step 8, Page 20)</td>
</tr>
<tr>
<td>ROOM displays</td>
<td>Room temperature offset is not zero (see “Configuration,” Step 8, Page 20)</td>
</tr>
<tr>
<td>✓ filter displays</td>
<td>Fan run time has exceeded filter check time set in configuration (see “Configuration,” Step 10, Page 21) To reset counter to zero and clear ✓ filter warning, press the ✓ and ▲ button simultaneously for 5 seconds</td>
</tr>
<tr>
<td>Auxiliary heat not on soon enough</td>
<td>Adjust differential for 2nd and 3rd stage heating if required (see Configuration, Steps 3 and 4, Pages 19-20)</td>
</tr>
<tr>
<td>Problem not listed above</td>
<td>Press the Reset button once; display will be refreshed and anti-short cycle timing will be reset to zero</td>
</tr>
</tbody>
</table>
ONE-YEAR LIMITED WARRANTY

The Seller warrants its products against defects in material or workmanship for a period of one (1) year from the date of manufacture. The liability of the Seller is limited, at its option, to repair, replace or issue a non-case credit for the purchase prices of the goods which are provided to be defective. The warranty and remedies set forth herein do not apply to any goods or parts thereof which have been subjected to misuse including any use or application in violation of the Seller’s instructions, neglect, tampering, improper storage, incorrect installation or servicing not performed by the Seller. In order to permit the Seller to properly administer the warranty, the Buyer shall: 1) Notify the Seller promptly of any claim, submitting date code information or any other pertinent data as requested by the Seller. 2) Permit the Seller to inspect and test the product claimed to be defective. Items claimed to be defective and are determined by Seller to be non-defective are subject to a $30.00 per hour inspection fee. This warranty constitutes the Seller’s sole liability hereunder and is in lieu of any other warranty expressed, implied or statutory. Unless otherwise stated in writing, Seller makes no warranty that the goods depicted or described herein are fit for any particular purpose.

Patent No. 424,953

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