

7 CONFIGURATION MENU

The Steffes 2100 Series room heating units have a Configuration Menu, which allows the heaters to be customized to the power company and consumer's needs. This menu can be accessed on start-up and allows configuration settings to be easily adjusted.

IMPORTANT

If access to Configuration Menu times out, the system must be powered off at the circuit breaker and back on to re-enter the menu.

Accessing the Configuration Menu

- Step 1** Energize the heater. Access to the Configuration Menu is allowed for the first two (2) minutes of operation. If the heater has been energized for over two (2) minutes, it must be powered off and back on again.
- Step 2** Press and release the **M** button until the faceplate displays "CONF."
- Step 3** Press the up arrow once and the faceplate will display "C000." The display will flash between "C000" and the corresponding configuration value.

- Step 4** If necessary, edit the configuration by pressing and holding the **M** button while using the up or the down arrow button to change the value.
- Step 5** Once the value is correct, release the buttons and press the up arrow button to go to the next configuration (C001, C002, etc.).
- Step 6** Repeat steps 4 through 5 until all configuration settings have been adjusted to the desired values.
- Step 7** Once configured, use the down arrow to leave the Configuration Menu.

In most applications only a few, if any, configuration changes will be necessary. Following is a description of the configuration settings and their functions:

- C000 Off-Peak Method of Charge Control** - Sets the method of brick core charging to be used during off-peak (charge) periods. Heater is configured for automatic charge control, which is a value of five (5). To utilize manual charge control, change the value to six (6).
- C001 Start Brick Core Charge Set Point** - If utilizing automatic charge control as set in C000, this value indicates the outdoor temperature at which the heater will start charging.
- C002 Full Brick Core Charge Set Point** - If utilizing automatic charge control as set in C000, this value indicates the outdoor temperature at which the heater will target a full core charge.
- C003 Power Line Carrier (PLC) Channel Selection** - If using PLC communication, this setting must match the channel setting in the Steffes PLC transmitting device. A value of zero indicates power line carrier communication is disabled.
- C004 Optional Controls Configuration**

| Value | Configuration Description |
|-------|---|
| 154 | No Time Clock Module/Utilizing PLC or Manual Charge Control |
| 155 | No Time Clock Module/Direct Wired Outdoor Sensor |
| 158 | Time Clock Module/Manual Charge Control |
| 159 | Time Clock Module/Direct Wired Outdoor Sensor |
- C005 Control Switch Configuration** - If utilizing power line carrier control, the Steffes time clock module or line voltage control, this value should be zero. For all other applications, this value should be one (1).
- C006** This configuration **MUST** be set to a value of six (6) for all 2100 Series room heating units.
- C007 Charge Factor** - This configuration should be set to a value of thirty (30).
- C008-C012** Currently not utilized in 2100 Series room heating units.



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ROOM HEATING UNITS Models 2102, 2103, 2104, 2105, 2106

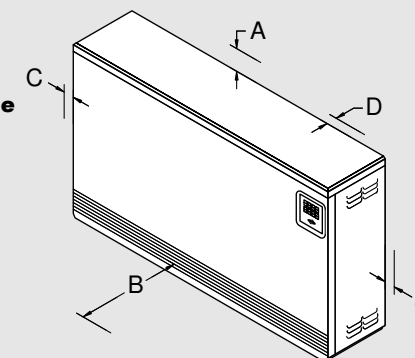
Quick Reference Installation Sheet

1 PLACEMENT AND CLEARANCES

WARNING

Risk of injury or fire. Violation of the clearance requirements can cause improper operation of the equipment. Maintain the placement and clearance requirements specified.

- A Top = 4 inches
- B Front and Grill = 15 inches
- C Sides = 2 inches (See Note)
- D Back = 1-1/2 inches



NOTE

A clearance of 12" is recommended on the right side of heater. If there is less than a 12" clearance, a remote room temperature sensor is recommended to ensure accurate room temperature sensing. The 12" clearance also allows space for hinging the right side panel open for servicing.

2 INITIAL SETUP

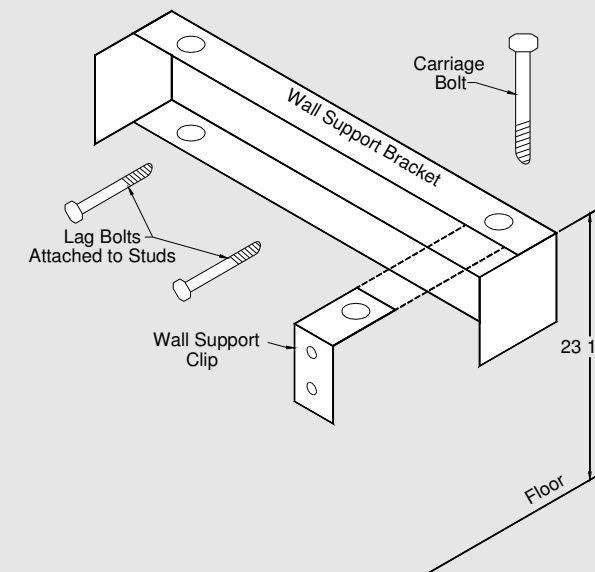
1. Unbox heater and lift it off the shipping pallet.
2. Place heater in the desired location.
3. Check for proper clearances on all sides.
4. Remove screws at lower edge of painted front panel.
5. Pull the lower edge of the panel forward and unhook it from the top panel.
6. Carefully place painted front panel aside.

3 SECURING THE HEATER

WARNING

Risk of injury or fire. Failure to secure the heater can cause the heater to fall over. Properly secure the heater by using the wall support bracket to mount it to the wall.

1. Place the top of the wall support bracket 23-1/2" from the floor and secure it to the wall with the lag bolts provided.
2. Attach the wall support clips to the back of the heater.
3. Set the carriage bolts aside as they will be used later to attach the heater to the wall support bracket.



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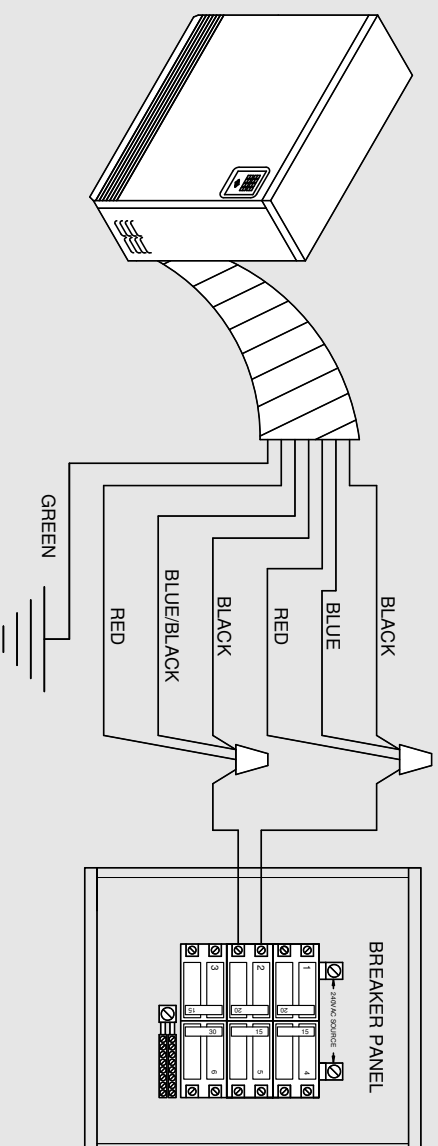
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4 LINE VOLTAGE ELECTRICAL CONNECTIONS

⚠ WARNING

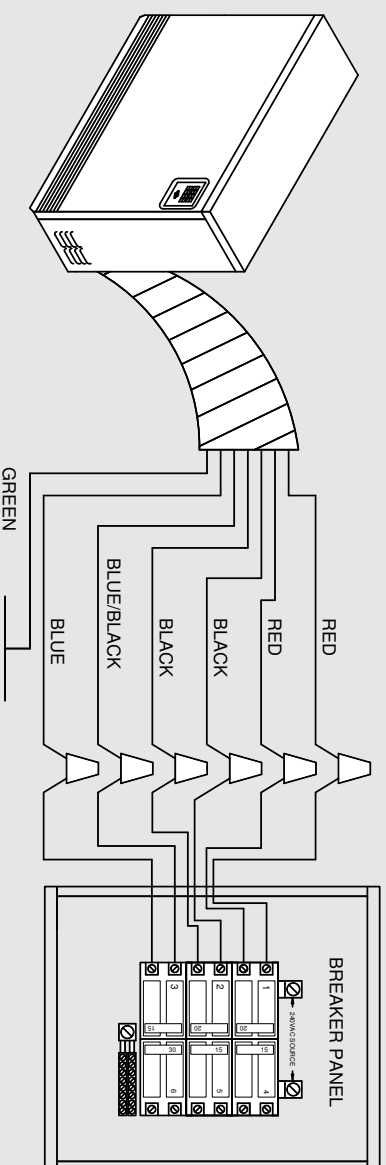
HAZARDOUS VOLTAGE: Risk of electric shock, injury, or death. **DO NOT** energize the heater until installation is complete. Equipment must be installed by a qualified technician in accordance with applicable local, state, and national codes and regulations.

SINGLE CIRCUIT CONNECTIONS



⚠ WARNING

Risk of injury or fire. Poor or marginal electrical connections will cause the connections to overheat and fail. Use extreme caution when making all electrical connections.

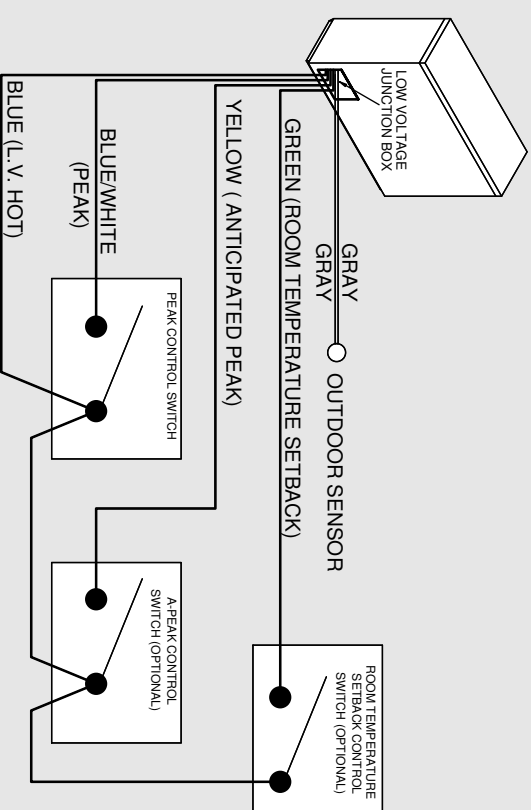


IMPORTANT

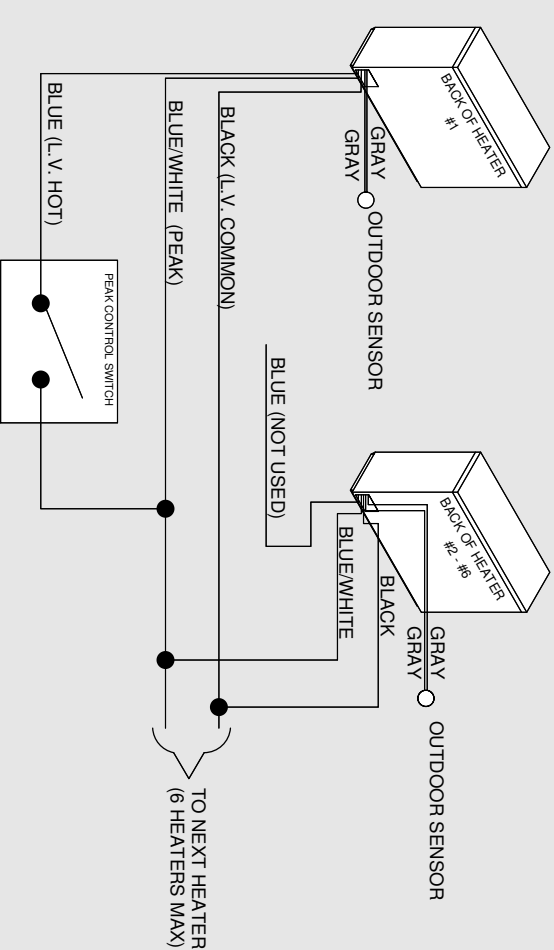
- The junction box **MUST** remain accessible for future service to the heater and **MUST** be sized in accordance with all applicable electrical codes and regulations.
- Connections shown are for systems with a 240V/208V blower/control circuit. Refer to the Unit Identification Label on the lower left side panel of the heater for proper voltage configuration.

5 LOW VOLTAGE CONNECTIONS FOR DIRECT WIRED CONTROLS

SINGLE HEATER



MULTIPLE HEATERS



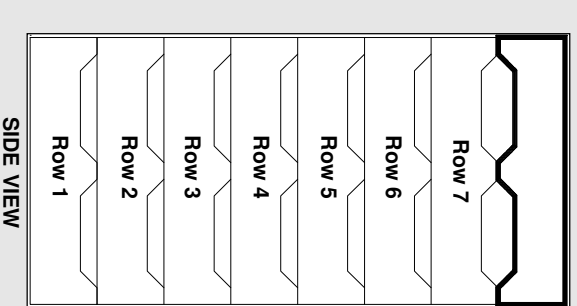
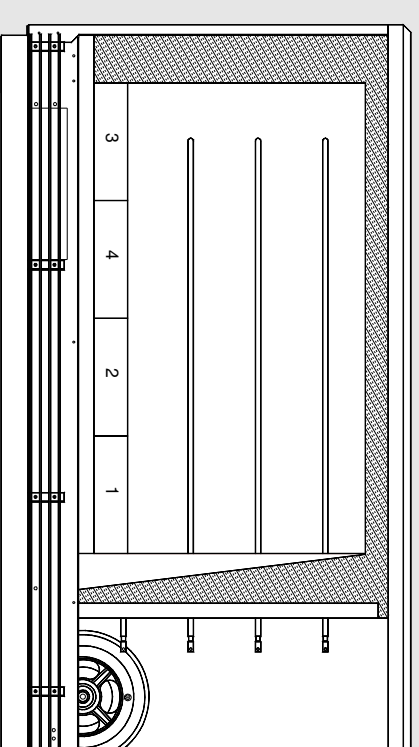
NOTES

- If using power line carrier (PLC) controls, a Steffes Time Clock Module, or line voltage for peak control, refer to the Owner's and Installer's Manual for installation instructions. Then, skip to Section 6 to complete the installation.
- Connecting the low voltage hot (blue) wire from multiple heaters to a single control switch may cause damage to the system. In multiple heater applications, connect the wires as shown for proper operation.
- In multiple heater applications, one outdoor sensor is needed for each heater installed.

6 BRICK LOADING

IMPORTANT

- The heater **MUST** be securely mounted to the wall prior to brick loading.
- Install bricks carefully to avoid damage to the bottom and back insulation panels of the storage cavity.
- Maintain an even horizontal line across the brick core during brick installation so air flow through the heater is not obstructed.
- To properly seal the brick core, make sure all bricks are installed correctly.



Note: Row 8 brick faces down

- Verify that the heater is not energized.
- Place the heater against the wall support bracket. Use the carriage bolts to secure the heater.
- Place shipping box in front of the heater for ease in cleanup of brick debris.
- Remove the screws on the right side of the galvanized front panel. Rotate the panel to the left to remove.
- Model 2104, 2105, or 2106 - remove and discard the cardboard spacer(s) from the brick core.
- Install the first brick faceup and slide to the far right side of the heater's storage cavity. Be sure the grooved side of the brick is up and fits tight against the right air channel and the back insulation panel. Continue loading the bricks for Row 1. The insulation on the left side may need to be compressed to install the last brick on each row.
- All bricks in rows one through seven must be loaded with the grooved side up.
- Install the eighth (top) row of bricks with the grooved side of the bricks facing down.
- Reinstall the galvanized front panel.