

COMFORT-COVE

Model C-Series

Warm Your Floor and More™

Installation Instructions & Specifications

Thank you for choosing
Comfort-Cove®!

American Made Product



Radiant Systems, Inc., proudly manufacturers Comfort-Cove® in the Heartland of America; in Valentine, Nebraska, USA. Our Comfort-Cove® heaters are even compliant with the *Buy American Act*.

Then & Now

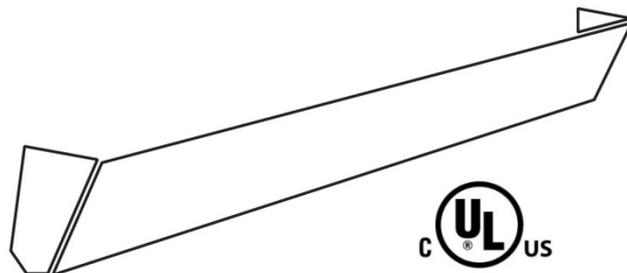
We started like most American businesses, by an individual with an idea and determination. Our story began back in 1984 with founder and owner, Kirk Sharp. Production began in his basement and is now operating out of a 30,000-square foot factory. Comfort-Cove® heater has constantly been innovated, engineered, and improved for optimum performance, for the last 28 years.

From the Owner

Thank you for choosing Comfort-Cove® for your heating needs, we take pride in our work and would like to thank you for supporting a local business such as ours, we wouldn't be here without you.

R. Kirk Sharp

R. Kirk Sharp



FILE #
USA: KKWS.E99303
CANADA: KKWS7.E99303



WARNING



Read Carefully – These instructions are written to help prevent difficulties that might arise during installation of Comfort-Cove® heaters. Studying the instructions saves time.

TO REDUCE RISK OF ELECTRIC SHOCK:

1. Disconnect all power to heater at main service panel before wiring or servicing.
2. All wiring must be in accordance with the National Electrical Code.
3. Verify the power supply voltage coming to heater matches the rating printed on the heater nameplate.
4. This heater is hot when in use. Do not touch.
5. Do not allow foreign objects to enter any ventilation opening.
6. Do not use it in areas where flammable liquids are used or stored.
7. Use this heater only as described in this manual, any other use is not recommended by the manufacturer.
8. This heater is not approved for use in corrosive atmospheres.
9. The heater must be mounted at least 6' (182.8 cm) or (1.83 m) above the floor.
10. Refer to these instructions for top and bottom clearance requirements.

MAINTENANCE SCHEDULE:

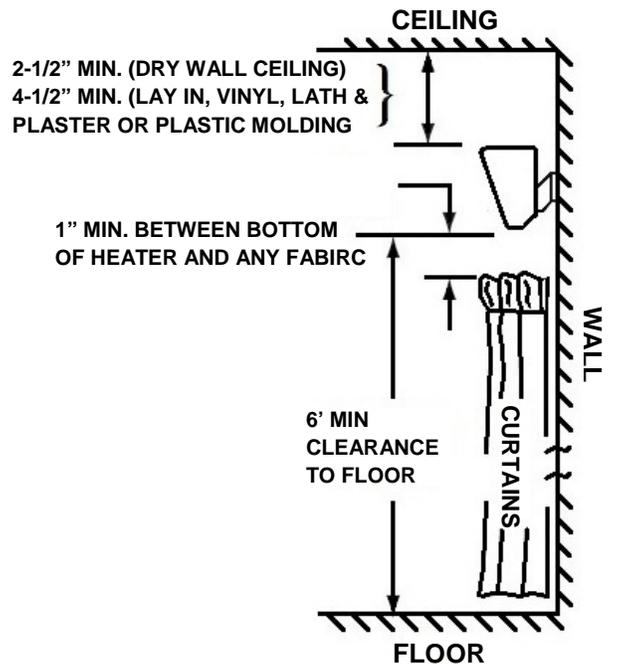
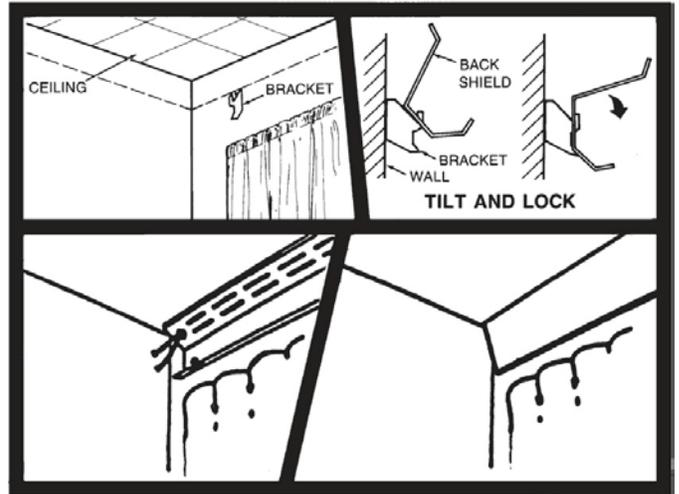
1. No Maintenance Required

www.radiantsystemsinc.com

1-800-314-9303 8AM – 5PM CST

Comfort-Cove® Mounting & Clearances

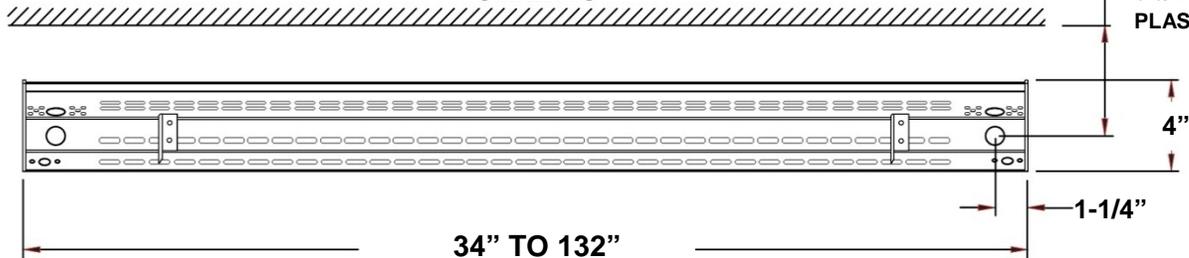
1. Locate a wall stud for each bracket such that when the heater is attached to the brackets they are spaced approximately 12" from heater end.
2. Attach brackets to wall studs with wood screws provided, use template provided to mark screw locations depending upon type of ceiling. (Figure 1)
3. Attach back shield to brackets by tilting Back Shield back and allowing Back Shield slot to fall onto bracket hook, then simply bring Back Shield forward locking into place.
4. Hang Front Panel on Back Shield and complete wiring as directed. (Note: if left and or right clearance is restricted attach end caps to front panel before hanging)
5. Complete wiring as shown on Page 3. Can be wired from either end.
6. Secure Front Panel to Back Shield using supplied painted screws and Teflon washers.
7. Attach End Caps (Teflon washer not needed).
8. Loosen the two outermost painted screws holding the painted Front Panel in place about one revolution, (**this is to allow for thermal expansion**).
9. When Comfort-Cove® is first energized, an initial break-in fragrance may be noticed – this is normal. (Do not touch while hot)



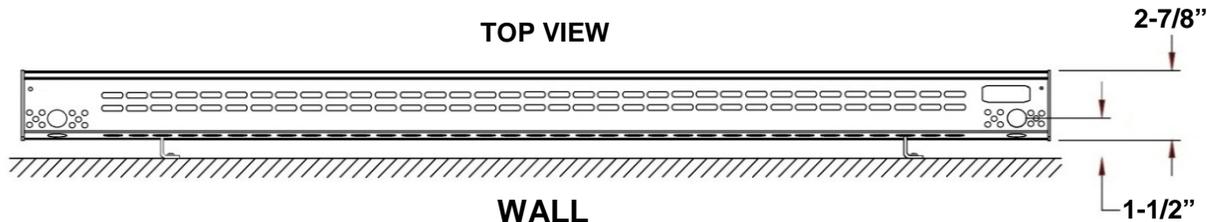
CAUTION	
1.	Do not recess Comfort-Cove® heater
2.	Never install heater without supplied wall brackets
3.	Heater should not be blocked in any manner
4.	Do not use plastic conduits for direct connection to Comfort-Cove®
5.	DO NOT PAINT HEATER IN ANY MANNER

REAR VIEW

CEILING



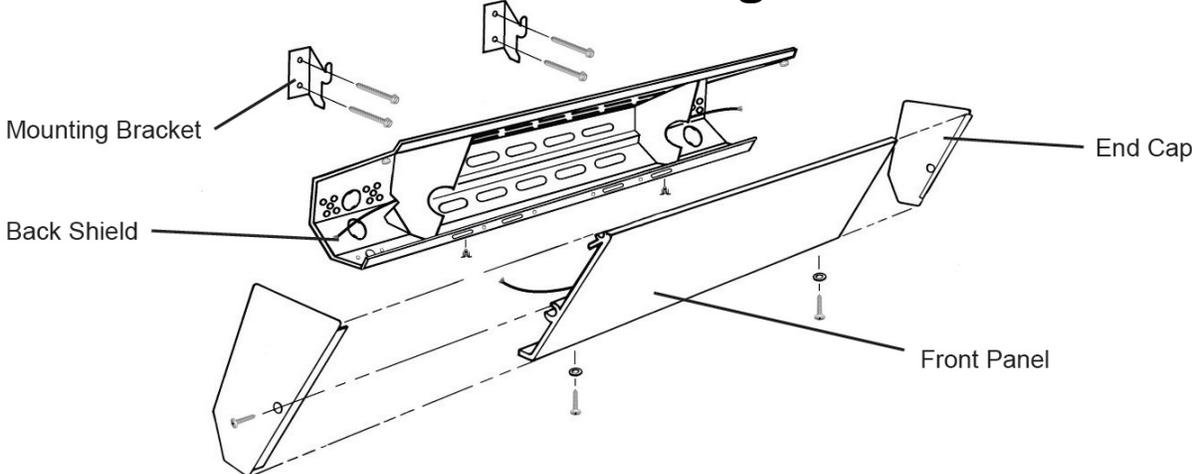
TOP VIEW



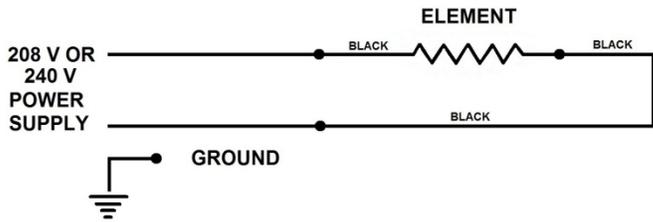
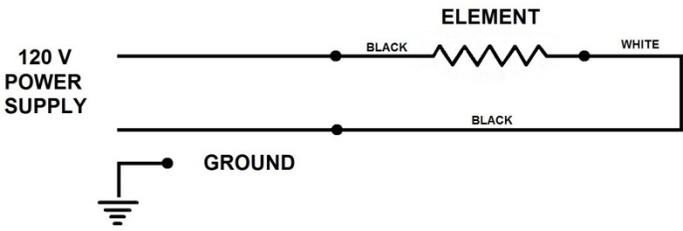
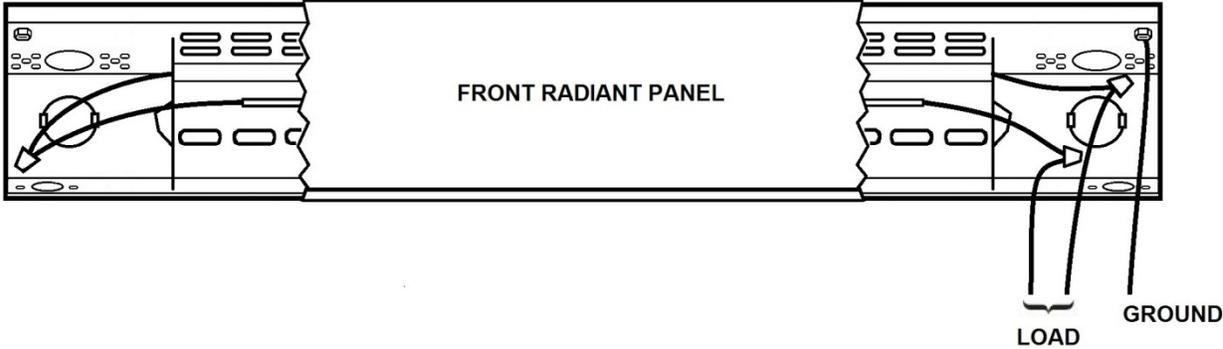
CEILING TO CENTER OF
KNOCK OUT
4-3/4" MIN. (DRY WALL CEILING)
6-3/4" MIN. (LAY IN, VINYL, LATH &
PLASTER OR PLASTIC MOLDING)

Figure #1

Comfort-Cove® Installation & Wiring

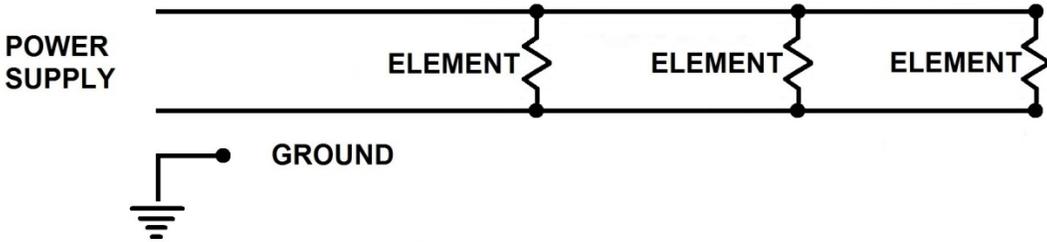


SINGLE COMFORT-COVE CONNECTION



MULTIPLE COMFORT-COVE CONNECTION

1. Allow 1" clearance between heaters
2. Do not exceed 16 amperes per circuit
3. Do not exceed thermostat ratings
4. Comfort-Coves must be wired in Parallel



Commonly Asked Questions

Q. How do I clean the front panel if it gets a smudge?

A. Do not use chemicals of any kind. Simply take a clean, damp white cotton washcloth and wipe the surface clean.

Q. Can I paint the heater?

A. Never paint the heater with aftermarket paint. Contact factory to obtain approved coating materials.

Q. Which costs less to operate 120 volt or 240 volt?

A. Electricity is billed by kilowatt-hours, voltage makes no difference.

Q. What is the best mounting location, an interior, exterior wall or above a window?

A. You can mount on any wall, we simply recommend mounting where it is most convenient to wire and or appealing to the user.

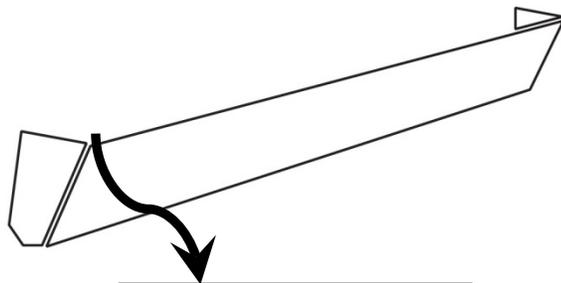
Q. Where is the most efficient place to mount the thermostat?

A. Temperature controls are most accurate on interior walls. Mount where it is convenient to wire and for the user to operate. Do not mount directly above dimmer switches.

Comfort-Cove Replacement Parts & Specifications

From high quality, locally sourced raw materials, Comfort-Cove® is specifically engineered for fast installation with easily replaceable parts.

For replacement parts, simply refer to your Comfort-Cove® specifications Nameplate located on the top of the Back Shield for heater information. Have model number ready when contacting factory for replacement parts. See below for



EXAMPLE NAMEPLATE



Model #	Wattage	Voltage	Amperes	Length	Weight
C-4512	450	120	3.8	34"	6 lbs
C-4508		208	2.2	34"	
C-4524		240	1.9	34"	
C-6012	600	120	5.0	47"	8 lbs
C-6008		208	2.9	47"	
C-6024		240	2.5	47"	
C-7512	750	120	6.2	59"	10 lbs
C-7508		208	3.6	59"	
C-7524		240	3.1	59"	
C-9012	900	120	7.6	71"	12 lbs
C-9008		208	4.3	71"	
C-9024		240	3.8	71"	
C-10512	1050	120	8.8	83"	13 lbs
C-10508		208	5.0	83"	
C-10524		240	4.4	83"	
C-12012	1200	120	10.0	94"	15 lbs
C-12008		208	5.8	94"	
C-12024		240	5.0	94"	
C-15008	1500	208	7.2	106 1/4"	18 lbs
C-15024		240	6.3	106 1/4"	
C-18008	1800	208	8.6	118 1/4"	20 lbs
C-18024		240	7.5	118 1/4"	
C-20008	2000	208	9.6	132"	22 lbs
C-20024		240	8.3	132"	

10 Year Limited Warranty

Radiant Systems, Inc., will replace any heating element found to be defective for a period of ten years from date of purchase. All other components are warranted for a period of one year from date of purchase. Warranty does not apply to damage from accidents, misuse, or alteration, connected to voltage is 5% above the nameplate voltage, nor to equipment improperly installed, wired, or maintained in violation of the instruction manual. This warranty is only valid in the fifty states of the United States. All warranty items FOB: Radiant Systems, Inc. Radiant Systems, Inc., will not be responsible for any incurred labor charges.



Service, Questions & Warranty:

1-800-314-9303 8AM-5PM CST

FAX:

1-402-376-3064

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www.radiantsystemsinc.com