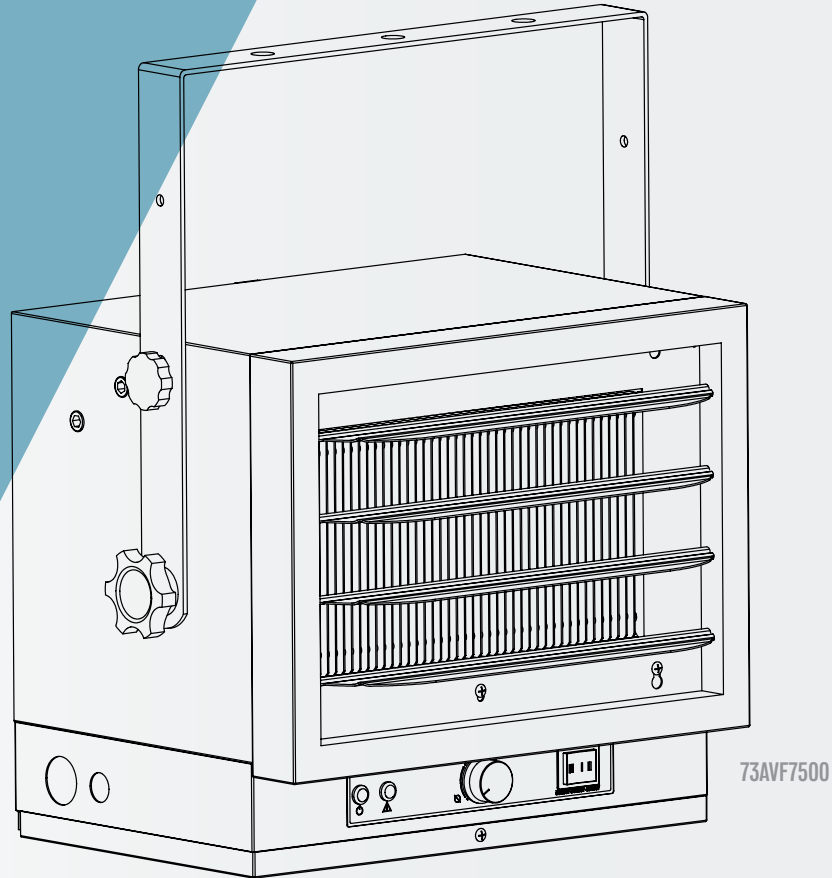




7500W GARAGE HEATER

INSTRUCTION MANUAL

#73AVF7500

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CRITICAL INFORMATION

HARDWIRED INSTALLATION REQUIRED:

This heater must be grounded and hardwired to a properly sized current protection circuit breaker in accordance with the (US) national electric code and local codes.

PET OWNER'S WARNING:

After the initial use of this heater, or after prolonged storage, it may product fumes resulting from moisture and dust. These fumes are not harmful and will dissipate within a few minutes. However, to prevent any distress to birds and small pets who are sensitive to fumes, we advise against using the heater around them during this period.

FIRST TIME USE

When using this heater for the first time, or after a long period of storage, the product may produce a 'new product' smell. Please turn on the heater and run it for at least 15 minutes at the maximum heat level to remove the smell. The smell will dissipate after a few minutes of use.

SPECIFICATIONS

POWER SUPPLY	RATED CURRENT	RATED POWER	ADJUSTABLE THERMOSTAT	NOISE LEVEL	NET WEIGHT	DIMENSIONS	REMOTE CONTROL
240V / 60HZ	31.3A	7500W / 25589 BTU	50°F – 95°F / 10°C – 35°C	≤ 55 dBA	23.8 LB / 10.8 KG	14" x 10.6" x 12.6" 35.5 cm x 27 cm x 32 cm	YES



SAFETY PRECAUTIONS

General Safety:

DO NOT use this appliance until you have read the safety warnings and operating instructions.

Risk of fire, malfunction, property damage, electric shock, serious injury, or even death may result if warnings and instructions are not adhered to.

The manufacturer declines all responsibility for personal injury or damage to animals or objects caused by inappropriate use of the appliance according to the warnings for installation, use, and maintenance described in this instruction manual.

This appliance is not to be used or have maintenance performed by persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge unless they have been given strict supervision or instruction concerning the use of the appliance by a person responsible for their safety.

- **DO NOT OPERATE THE HEATER WHEN SHOWING THE MALFUNCTION CODE 'ER'.**
- This appliance is intended for INDOOR use only. DO NOT use it for any purpose other than that for which it was designed.
- Keep the appliance out of reach of children and pets.
- DO NOT alter or modify this appliance in any manner.
- This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces.
- Keep combustible materials, such as furniture, pillows, bedding, papers, clothes, etc., and curtains at least 3 ft (0.9 m) from the front of the heater and keep them away from the sides and rear.
- To prevent a possible fire, do not block air intakes or exhaust in any manner. DO NOT use it on soft surfaces, like a bed, where openings may become blocked.
- Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock or fire, or damage the heater.
- Always turn off the power of the heater before moving or cleaning, or whenever the unit is not in use.
- DO NOT operate the appliance if it malfunctions or has been dropped or damaged in any manner.
- Dutiful compliance with regular maintenance is required for safe and effective operation.

Electrical Safety:

Improper installation or failure to follow the procedures outlined in this instruction manual can result in serious electrical shock.

All wiring must be done by a certified electrician according to local, state, and national electrical codes, and the heater must be grounded as a precaution against possible electrical shock.

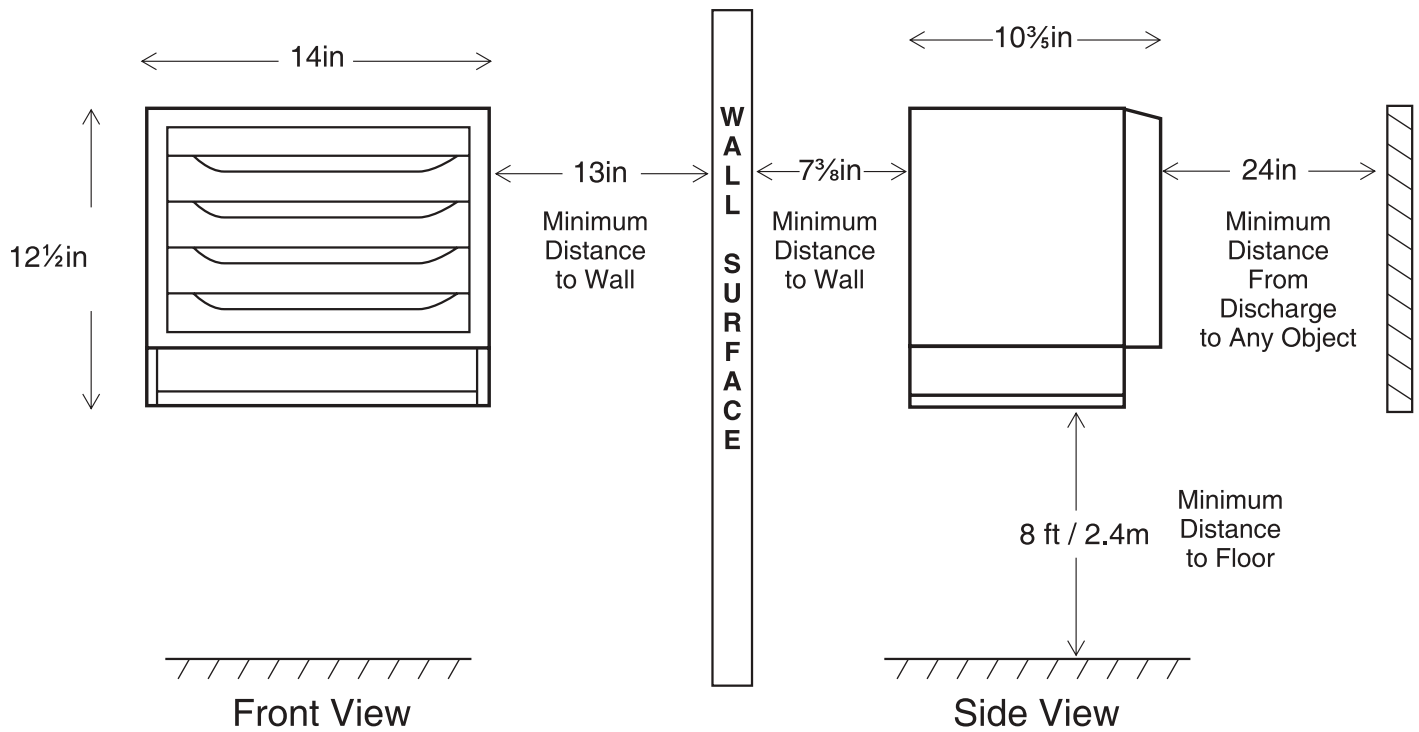
All electrical power must be disconnected and the main service box must be locked before inspecting, cleaning, or servicing the heater.

- The heater requires hardwire installation (no wall plug-in).
- Use copper wires only for supply connections. Choose wires of 8 AWG or larger, rated for at least 167°F (75°C).
- Connect to properly grounded outlets only.
- Use only electrical wiring that is in good working order.
- The heater circuit must be protected with proper fuses.
- DO NOT handle the power cord, or plug or unplug with wet hands. Keep the plug and power cord away from liquids.
- If the power cord is damaged, it must be replaced by the manufacturer, its certified agent, or similarly qualified persons in order to avoid a hazard.
- To disconnect the heater, turn off the controls and power to the heater circuit at the main disconnect panel.

LOCATING THE HEATER

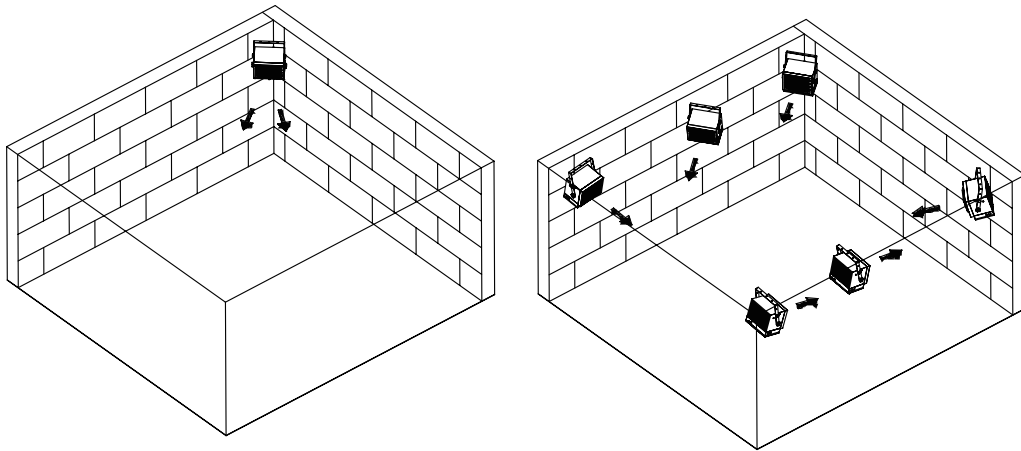
- Observe wall, floor, and ceiling clearance requirements.
- Align the air outlet in the desired direction. The airflow must be directed parallel to or away from the adjacent wall.
- DO NOT use an extension cord or power strip with this product, as using those may increase risk of fire.
- DO NOT locate or use this appliance outdoors or in areas with the following characteristics:
 - Areas where gasoline, paint, or flammable vapors and liquids are used or stored.
 - Corrosive atmospheres such as marine greenhouses or chemical storage areas.
 - In bathrooms, laundry areas, and similar indoor locations with high levels of moisture.
 - Where it may fall into a bathtub or other water container.
 - Near heated surfaces and open fire.
- Install heater out of traffic areas, maintaining the clearances stated in Figure 1. Ensure that the airflow is not restricted or obstructed by any items, and it should gently sweep exposed walls instead of blowing directly onto them.

FIGURE 1



- When more than one heater is used in an area, the heaters should be arranged so that the air discharge of each heater supports the airflow of the others to provide the best circulation of warm air, as indicated in Figure 2.

FIGURE 2



INSTALLATION

For optimal performance, the appliance must be installed correctly. Please follow the assembly instructions strictly. Installation and settings must be carried out by a certified electrician in line with all applicable local, state, and national codes.

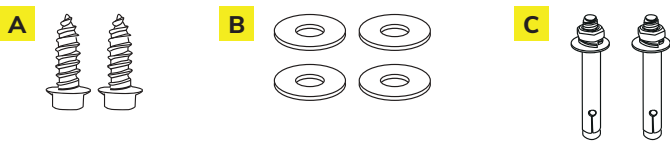
Before starting the installation, check that the product and its parts are not deformed or damaged. Make sure that the power supply has been disconnected from the appliance.

Mounting the Bracket:

Tools Required (Not Included):

- Electric Screwdriver
- Tape Measure
- Electric Power Drill

Hardware Required (Included):



PART	DESCRIPTION	QUANTITY
A	3/8" Diameter Lag Bolt	2
B	Washer	4
C	M10 Expansion Bolt	2

If you use the mounting bracket, ensure that both the mounting structure and anchoring hardware can reliably support the weight of the heater.

1. Mount the bracket with the wood joist. Refer to Figures 3A and 3B.
 - Drill a 1/4" pilot hole in the wood joist for the 3/8" Diameter Lag Bolt(s).
 - Place the 3/8" Diameter Lag Bolt(s) and Washers as shown in the Figures 3A or 3B.
 - **Figure 3A:** For single-bolt mounting (center bracket hole only). If you want to swivel the heater, a longer lag bolt may be required to properly secure the heater (this bolt is not included).
 - **Figure 3B:** For double-bolt mounting (both off-center holes are used).

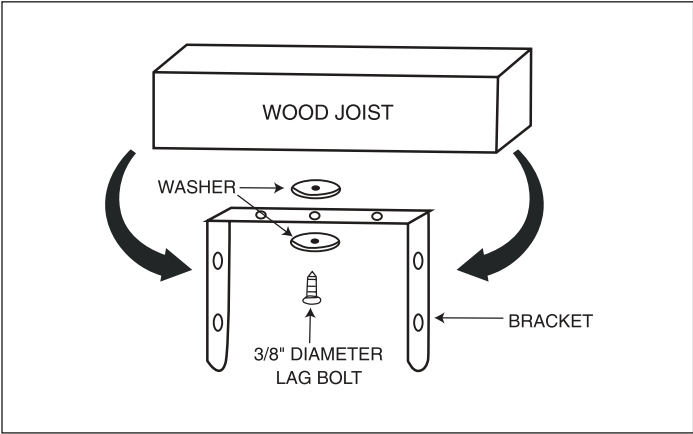


FIGURE 3A - SINGLE-BOLT MOUNTING
To Allow Swivel

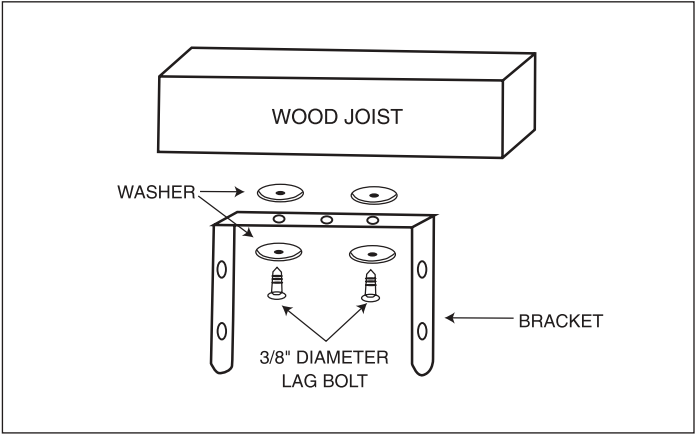


FIGURE 3B - DOUBLE-BOLT MOUNTING
For Fixed Position

2. Mount the bracket with the concrete ceiling. Refer to Figures 4A and 4B.
 - Drill a 0.47" pilot hole in the ceiling joist for the M10 Expansion Bolt(s).
 - Place the M10 Expansion Bolt(s) and Washers as shown in the Figures 4A or 4B.
 - **Figure 4A:** For single-bolt mounting (center bracket hole only).
 - **Figure 4B:** For double-bolt mounting (both off-center holes are used).

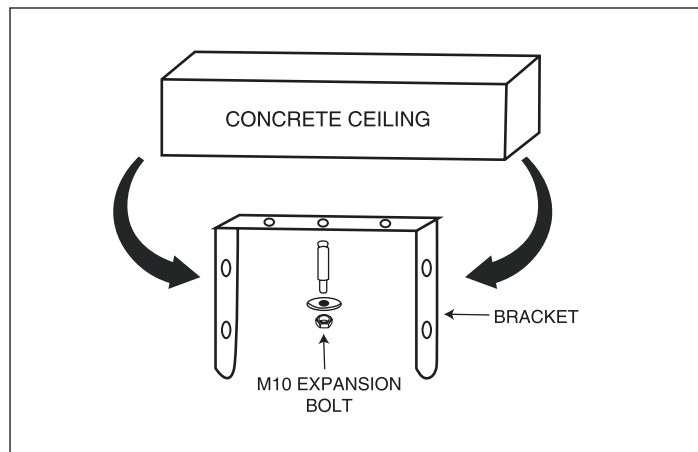


FIGURE 4A - SINGLE-BOLT MOUNTING
To Allow Swivel

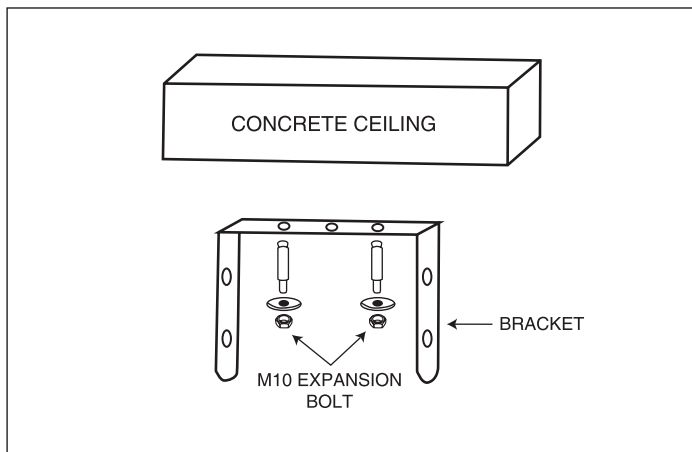


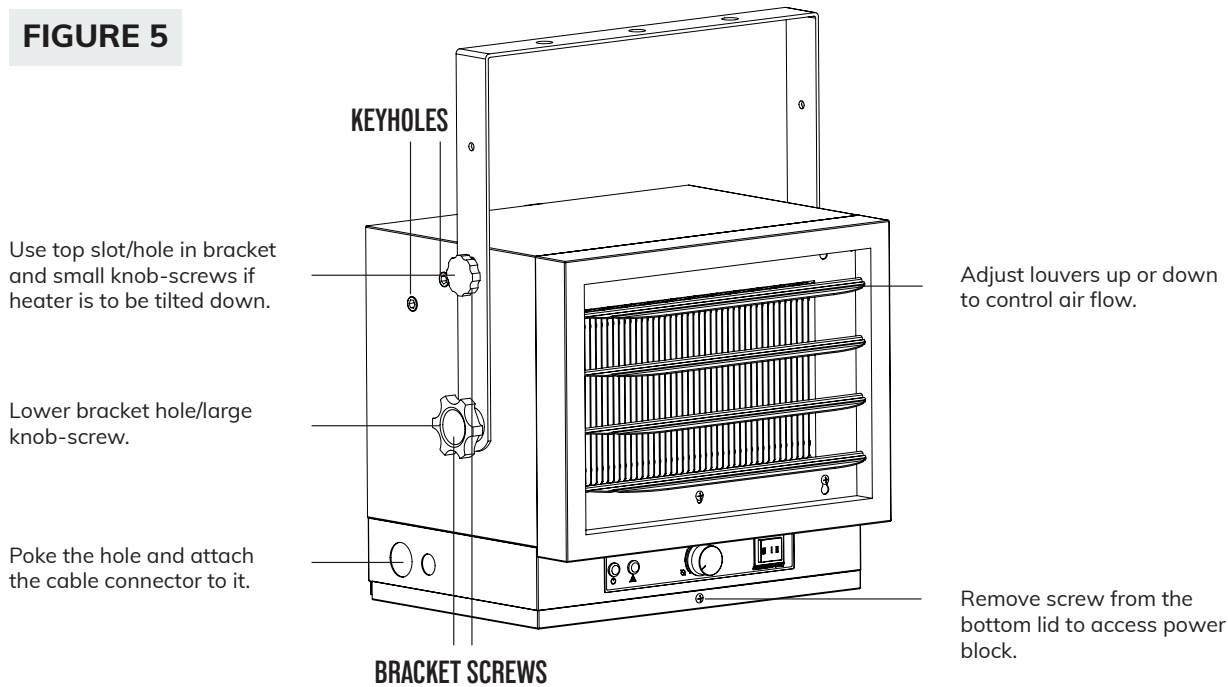
FIGURE 4B - DOUBLE-BOLT MOUNTING
For Fixed Position

Hanging the Heater in the Bracket:

1. Lift the heater up and into the mounting bracket and align the lower bracket holes with the threaded holes nearest the heater's center.
2. Thread a large knob-screw through the hole on each side of the bracket.
3. Aim the heater horizontally or tilted by aligning the upper bracket holes with the top threaded holes on the heater and secure with the small knob-screws and tighten all (See Figure 5).

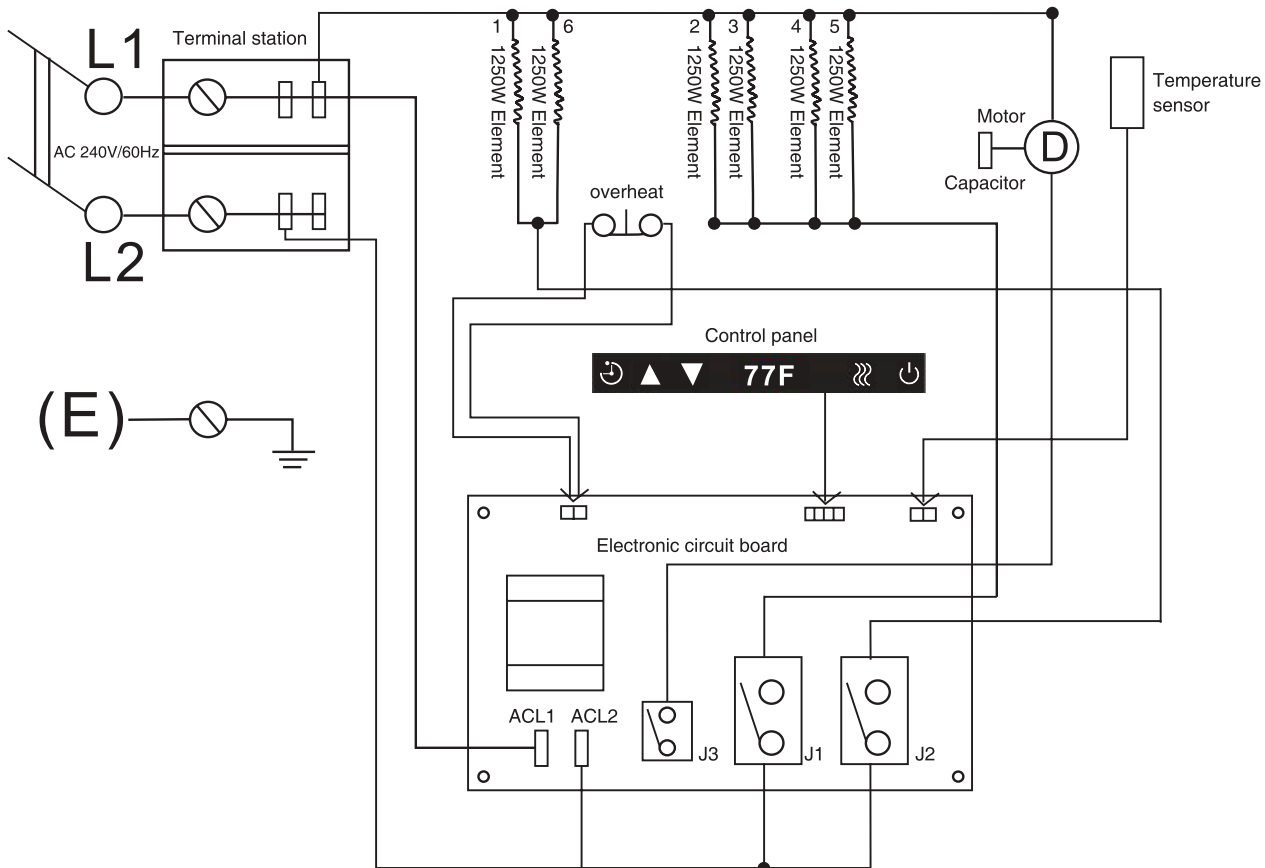
NOTE: This heater is heavy. It is recommended that two or more adults fulfill the assembly at this step to prevent damage or injury.

FIGURE 5



CONNECTING THE POWER

Wiring Diagram:





WARNING:

This appliance must be grounded.



WARNING:

The appliance must be connected to a current protection circuit or 30 Amp device before being connected to power supply!

NOTE: All wiring must be carried out by a certified electrician and must be in accordance with national and local electrical codes in the United States.

1. With the power off at the breaker, remove the screw from the bottom lid to access the power block of the heater (see Figure 5).
2. Poke the hole at the side of heater. Attach the cable connectors to the hole (see Figure 5) and slide the wire through the cable connector.

NOTE: For certain applications, conduit may be required (see Figure 6). Check the local electrical codes. If you plan to run the wiring in conduit and want the flexibility to adjust the heater's position, make sure to purchase sufficient flexible conduit that allows for easy turning of the heater.

3. Pull enough wire into the heater and connect the wire to the power block located in the electrical area of the heater (see Figure 7).
4. Must tightly torque all terminal screws and power block lugs. Refer to SPECIFICATION and NEC / local codes for the required torque values. Failure to do so may cause overheating.
5. Turn on the power at the main circuit breaker panel.

FIGURE 6

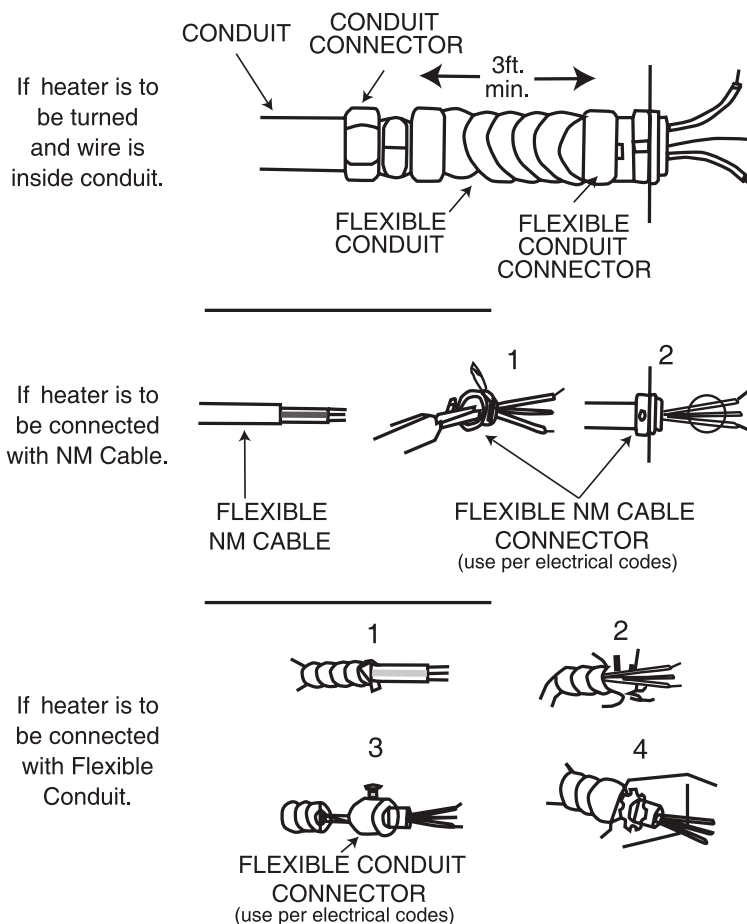
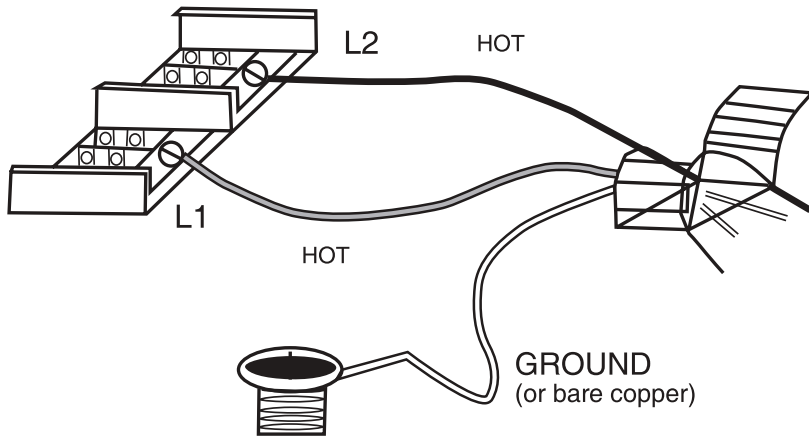


FIGURE 7



WARNING:

It is advised that at the start of each heater season, the power should be turned off at the circuit breaker and the L1 & L2 lug screws checked for tightness the proper torque. The heater should be cleaned and checked for mechanical and electrical integrity. See SPECIFICATION and NEC / local codes.

ADJUSTING AIRFLOW

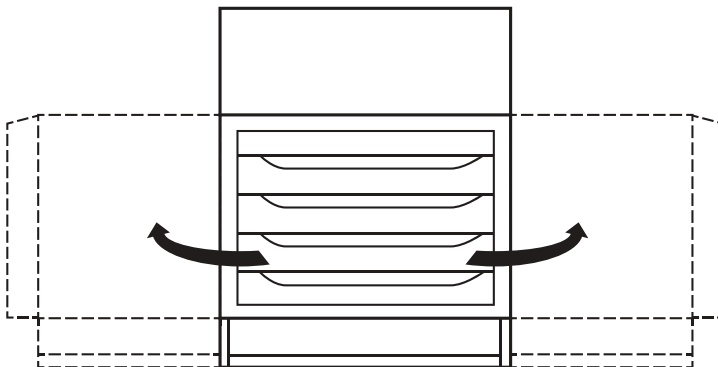


WARNING:

To prevent electric shock, disconnect the power to the heater at the main service box before attempting to adjust the louvers.

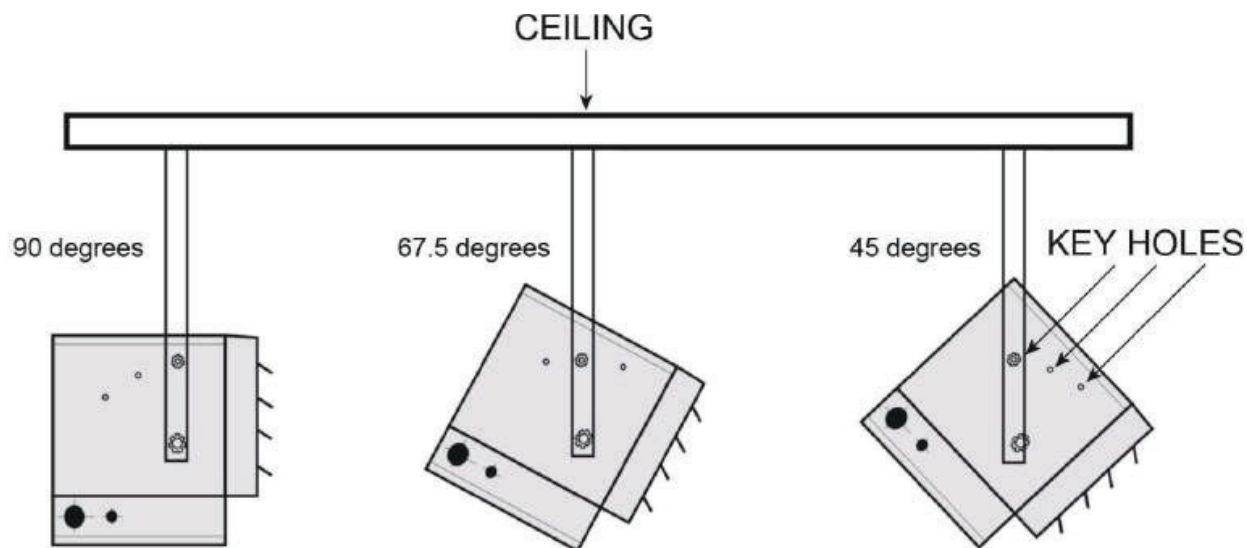
1. Swivel the Unit

If the heater is mounted on a single center lag bolt (see Figure 3A / 4A), you can adjust the entire heater and bracket assembly by turning it left or right.



2. Tilt the Unit

Loosen the top small knob-screws and thread them into provided holes in the heater until tight.



3. Adjust the louvers as desired (see Figure 5)

NOTE: When the heater is on, please avoid adjusting the louvers with bare hands to prevent burns.

NOTE: DO NOT OPERATE THE HEATER WITH THE FRONT LOUVERS CLOSED, OTHERWISE IT WILL CAUSE DAMAGE TO THE HEATER.

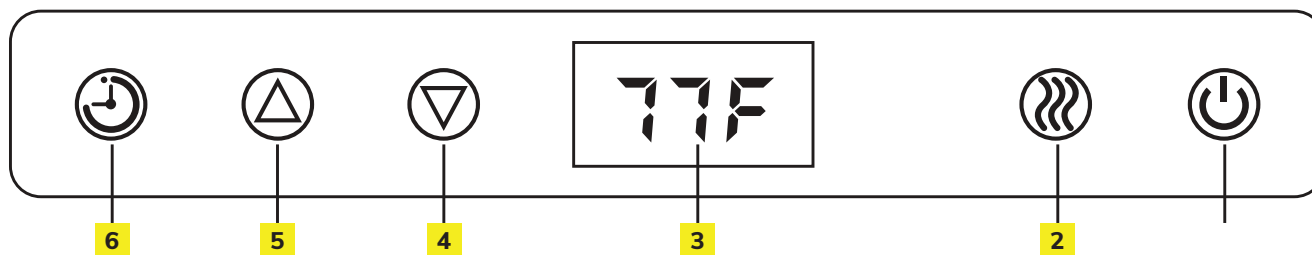
OPERATING INSTRUCTIONS



WARNING:

The heater must be properly installed before use.

Control Panel:



1 Power

2 Heater

3 LCD Screen

4 Down

5 Up

6 Timer

When the heater is plugged in, all buttons will flash and the screen will display the environment temperature and heating stage 'OFF' alternatively every 15 seconds.

1. Power Button

- Press this button to power on the heater. All icons will display on the screen.
- Press the power button to turn off the heater. The motor will be turned off in 30 seconds and the heat will be blown out.
- Press the power button for 10 seconds to lock the heating function. At this time, the heater button has no function when pressing it. Then, press the power button for 10 seconds again to unlock the heating function (the digital screen flashes 6 times before the setting is locked or unlocked).

NOTE: When the heating function is locked, press the heater button only to switch between 'OFF' and 'FA'.

2. Heater Button

- Press the heater button to turn on the heat. Press again to cycle through different settings as follows:

HEATER SETTING	DISPLAY VALUE	HEATER PERFORMANCE
OFF	OFF	Fan OFF, heating function OFF, the fan will be turned off in 30 seconds
Fan Only	FA	Fan ON, heating function OFF
5000W Low	L	Fan ON, heating function ON, the default setting temperature is 77°F / 25°C
7500W High	H	Fan ON, heating function ON, the default setting temperature is 77°F / 25°C

NOTE: The heating function activates only when the setting temperature is higher than the environment temperature; otherwise, the heater engages the fan only.

- Press and hold the heater button for 5 seconds to switch between Fahrenheit (°F) and Celsius (°C) display.

3. LCD Screen

- Displays information about the settings you are using.
- After adjusting the heater and timer settings, the screen will display the working environment temperature, heating stages, and timer setting alternatively for each 15 seconds.

4. Up and Down Button

- Press the up and down button to adjust the temperature setting between 50°F - 95°F (10°C - 35°C). See the table for detailed temperature setting instructions.

NOTE: The up and down button functions exclusively when the heating function is on.

FAHRENHEIT TEMPERATURE	DISPLAY	CELSIUS TEMPERATURE	DISPLAY
50°F	50F	10°C	10C
51°F	51F	11°C	11C
52°F	52F	12°C	12C
93°F	93F	33°C	33C
94°F	94F	34°C	34C
95°F	95F	35°C	35C

- When the timer function is active, press the up and down button to adjust the timer setting.

5. Timer Button

- Controls the amount of time that the heater will run before powering off.
- Press the timer button to activate the timer function. Press again to cycle through different timer settings. See the table for detailed timer setting instructions.

TIMER INTERVAL	DISPLAY
1 Hour	1H
2 Hours	2H
3 Hours	3H
4 Hours	4H
7 Hours	7H
8 Hours	8H
OFF	\

- The timer function will exit without any action in 5 seconds.

NOTE: The timer function is not an excuse to leave the heater unattended.

When the desired temperature is reached, the heater will automatically stop heating, and the environment temperature reading will flash continuously.

NOTE: Heater will cycle on and off to maintain the set temperature.

Thermal Cut-Out:

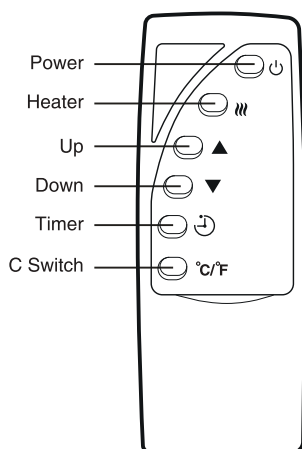
The heater will automatically shut off when parts of it overheat. The heater will turn ON again when the abnormal temperature returns to normal levels. Should the unit overheat and cause the thermal cut-out to cycle, the cause of the overheating should be determined and corrective action taken before further operation.

NOTE: When the thermal cut-out is activated, the control panel will show 'ER'. In this case, please turn off the heater immediately and check for any objects on or near the heater that might be obstructing the airflow or causing high temperatures.

NOTE: Do not operate the heater when it is showing 'ER'.

Remote Control:

The remote control can be used up to 19.7 feet (6 meters) away from the heater as long as there are no obstructions between the remote control and the heater. The remote can control all the settings as the control panel does.



Remote Control Batteries:

Press and slide the battery cover on the rear of the remote and remove the cover. Insert two new AAA 1.5V batteries into the battery compartment. Ensure that the polarity is correct. Batteries are not included in the package due to safety during transportation.

NOTE: Do not mix old and new batteries together in the remote. Do not mix alkaline, standard (carbon-zinc), or rechargeable (NiCad, NiMh, etc.) batteries together.

Disposal of Used Batteries:

Battery may contain hazardous substances which could endanger the environment and human health.



This symbol marked on the battery and / or packaging indicates that used battery shall not be treated as municipal waste. Batteries should be disposed of at an appropriate collection point for recycling. By ensuring the used batteries are disposed of correctly, you will help prevent potential negative consequences for the environment and human health. The recycling of materials will help to conserve natural resources. For more information about the recycling of used batteries, please contact your local municipality waste disposal service.

CLEANING & MAINTENANCE

Cleaning and user maintenance shall not be made by persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge unless they have been given strict supervision or instruction concerning the use of the appliance by a person responsible for their safety.

Before cleaning, make sure the heater is OFF and has been disconnected from the power at the circuit breaker and that the heating element of the heater is cool.

- DO NOT disassemble the heater to clean it.
- Use a vacuum or duster to remove dust and dirt from the heater and vent areas.
- Clean with a soft, damp cloth and buff with a dry cloth to maintain the luster of this product.
- NEVER use abrasive cleaners, liquid sprays, or any cleaner that could scratch the surface of the appliance.
- During summer or at other times when the appliance is not in use, disconnect the power supply and cover the whole appliance with a dust cloth. Moreover, keep the appliance in a dry and cool place.
- All other servicing should be performed by qualified service personnel. DO NOT try to repair the heater yourself.
- Always demand original spare parts for repairs.

TROUBLESHOOTING

ERROR CODE	POSSIBLE CAUSE(S)	RECOMMENDED SOLUTION
ER	- Overheat safety cut-off. - Temperature sensor is loosened or damaged.	DISCONNECT THE POWER. - Check if the heater has any objects to be covered and if the motor is working. Normally, when the temperature is below 149°F (65°C), the heater will restore to the status of your settings. - Check the temperature sensor and retighten it. If it still does not work, contact customer service team.
E1	- Temperature sensor is loosened. - Temperature sensor is damaged.	DISCONNECT THE POWER. - Check the temperature sensor and retighten it. - If it still does not work, contact customer service team.
E2	No buttons work over 20 seconds.	DISCONNECT THE POWER. Restart the unit.
Temperature reading flashes continuously.	Ambient temperature is over 95°F (35°C).	When the ambient temperature is below 95°F (35°C), it will restore to the status of your settings.