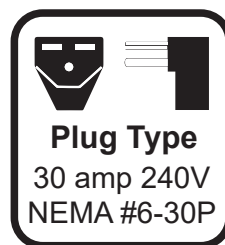
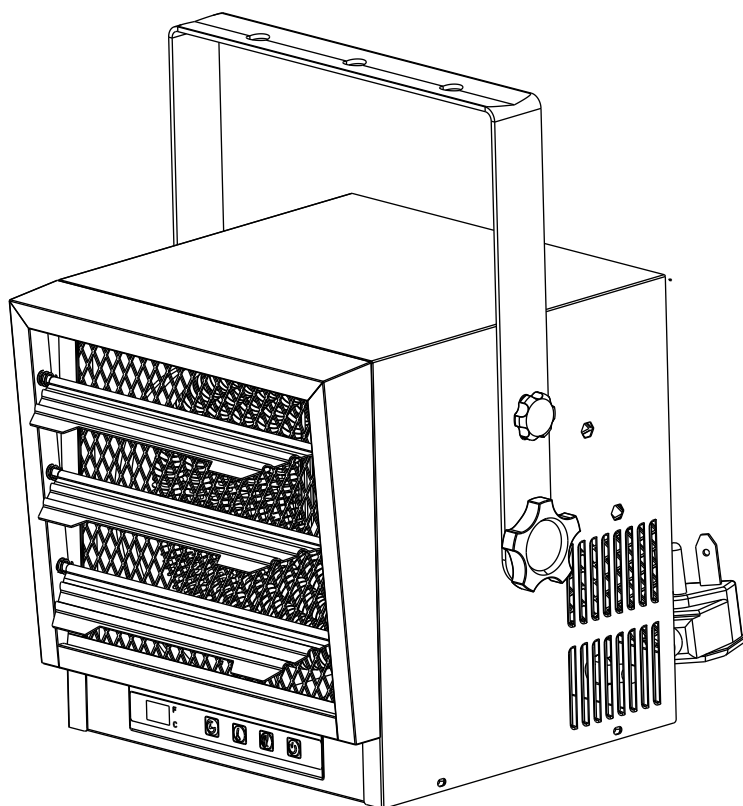


Electric Garage Heater

HS1248-08A

4,800W / 240V / 16,382 BTU

INSTALLATION & MAINTENANCE INSTRUCTIONS



Intertek
5022073

CONFORMS TO
UL STD 2021
CERTIFIED TO
CSA STD C22.2
NO.46

Before the first use of this heater, please read this USER'S MANUAL very carefully. This USER'S MANUAL has been designed to instruct you as to the proper manner in which to assemble, maintain, store, and most importantly, how to operate the heater in a safe and efficient manner. Please keep this manual for future reference.

CONSUMER: Retain this manual for future reference.

IMPORTANT INSTRUCTIONS

When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following

1. Read all instructions before installing or using this heater.
2. This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Keep combustible materials, such as electrical cords, furniture, pillows, bedding, papers, clothes, and curtains at least 3 feet (0.9 m) from the front of the heater and keep them away from the sides and rear.
3. Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating and unattended.
4. Always turn off the power to the heater when not in use.
5. Do not operate any heater after the heater malfunctions, has been dropped or damaged in any manner. Disconnect power at the service panel and have the heater inspected by a reputable electrician before reusing.
6. Do not use outdoors.
7. This heater is not intended for use in bathrooms, laundry areas and similar indoor locations. Never locate heater where it may fall into a bathtub or other water container.
8. 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.
9. To prevent a possible fire, do not block air intakes or exhaust in any manner. Do not use on soft surfaces, like a bed, where openings may become blocked.
10. A heater has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint, or flammable liquids are used or stored.
11. Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.
12. To disconnect heater, turn controls to off, and turn off power to heater circuit at main disconnect panel.
13. This heater may include a visual alarm to warn that parts of the heater are getting excessively hot. If the alarm illuminates, immediately turn the heater off and inspect for any objects on or adjacent to the heater that may have blocked the airflow or otherwise caused high temperatures to have occurred. **DO NOT OPERATE THE HEATER WITH THE ALARM LIGHT ILLUMINATING.**

PET OWNERS WARNING: The health of some small pets including birds are extremely sensitive to the fumes produced during the first-time use of many appliances. These fumes are not harmful to humans but we recommended that you do not use your heater around birds and small pets during its initial use until the manufacturing corrosion coatings burn off.

SAVE THESE INSTRUCTIONS



This Product can expose you to chemicals including Diisononyl phthalate (DINP) which is known to the State of California to cause cancer and Di-isodecyl phthalates (DIDP) which is known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.p65Warnings.ca.gov

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SPECIFICATIONS

HS1248-08A

Voltage	240 V	208 V
Frequency	60 Hz	60 Hz
Output Power (Watts)	4800 W	3600 W
Electric Current (A)	20 A	17.3 A
Dimensions	287.5 mm x 270 mm x 280 mm	
Net Weight	20.1 LBS / 9.1 KGS	

SAFETY INFORMATION

GENERAL SAFETY INFORMATION

Prior to operating heater, make sure the electrical outlet is of the configuration and capacity appropriate for the heater. See outlet configuration on front page of manual. This heater is for use on 240 volts. The cord has a plug as shown in Figure 1. No adapter is available for this blade configuration, and none should be used. The type outlet is a 240 volt grounding outlet. When properly installed, it provides a ground connection through the cord to the heater to protect the operator from electric shock.

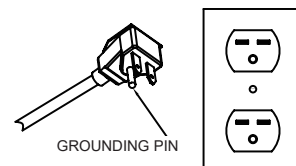


Figure 1



WARNING



This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

SAFETY INFORMATION



When using any electrical appliance, basic safety precautions must be followed in order to reduce the risk of fire, electrical shock and/or injury to persons or property. Be sure to read all instructions before using this appliance and observe the following safety tips

1. Always unplug the heater when not in use. To disconnect, grip plug and pull from wall outlet. Never yank on cord.
2. Do not run cord under carpeting. Do not cover cord with throw rugs, runners or similar items. Do not route cord under furniture or appliances. Arrange cord away from high-traffic areas where it can be tripped over. Route the cord so that it will not be walked on or pinched by furniture.
3. Connect to properly grounded outlets only. Check heater volt and amperage on the back of the heater to make sure it agrees with the electric service supplied.
4. Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock, fire, or damage to the heater.
5. This heater draws 20 Amps during operation. Be sure to use a dedicated 250VAC 30A circuit for the heater.
6. It is normal for the plug and cord to feel warm to the touch. A plug or cord which becomes hot to the touch or becomes distorted in shape may be a result of a worn electrical outlet. Worn outlets or receptacles should be replaced prior to further use of the heater. Plugging the heater into a warm outlet/receptacle may result in overheating of the power cord or fire. Ensure the heater is on a stable, secure floor surface to eliminate the potential of tipping it over. Be sure that the plug is fully inserted into the appropriate receptacle. Please remember that receptacles also deteriorate due to aging and continuous use: check periodically for signs of overheating or deformations evidenced by the plug. Should this occur, do not use the receptacle. Call your electrician.
7. Check that neither the appliance nor the power cable has been damaged in any way during transportation.
8. Make sure that no pieces of polystyrene or other packaging material have been left between one element of the appliance and another. It may be necessary to clean the appliance with a vacuum cleaner.
9. This heater draws 20 Amps during operation. To prevent overloading a circuit, do not plug the heater into a circuit that already has other appliances working.
10. Do not run in locations when the heater will be left unattended for long periods of time.
11. Do not use attachments or filters. They are not recommended.
12. Always plug the heater directly into a wall outlet/receptacle. Never use with an extension cord or portable power tap (outlet/power strip).
13. A heater has hot, arcing and sparking parts inside. Do not use it in areas where gasoline, paint or flammable liquids are used or stored.

Note: There may be a trace of smoke or odor when this unit is first operated. Don't be alarmed. This indicates that a drop of oil fell on the heating coil during the manufacturing process. It will quickly evaporate and should not reoccur

Make sure that the room in which the appliance is located is well ventilated during its operation. It is normal for the appliance to emit small cracking sounds when you turn it on for the first time. Do not be alarmed.

LOCATING HEATER

Install heater away from traffic areas, maintaining clearances stated in figure 2 (below). The air flow direction should not be restricted (ie. by columns or machinery). The air flow should wipe exposed walls rather than blowing directly on them. When more than one heater is used in an area, heaters should be installed so that the air discharge of each heater supports the air flow of the others, to provide best warm air circulation as shown in figure 3.

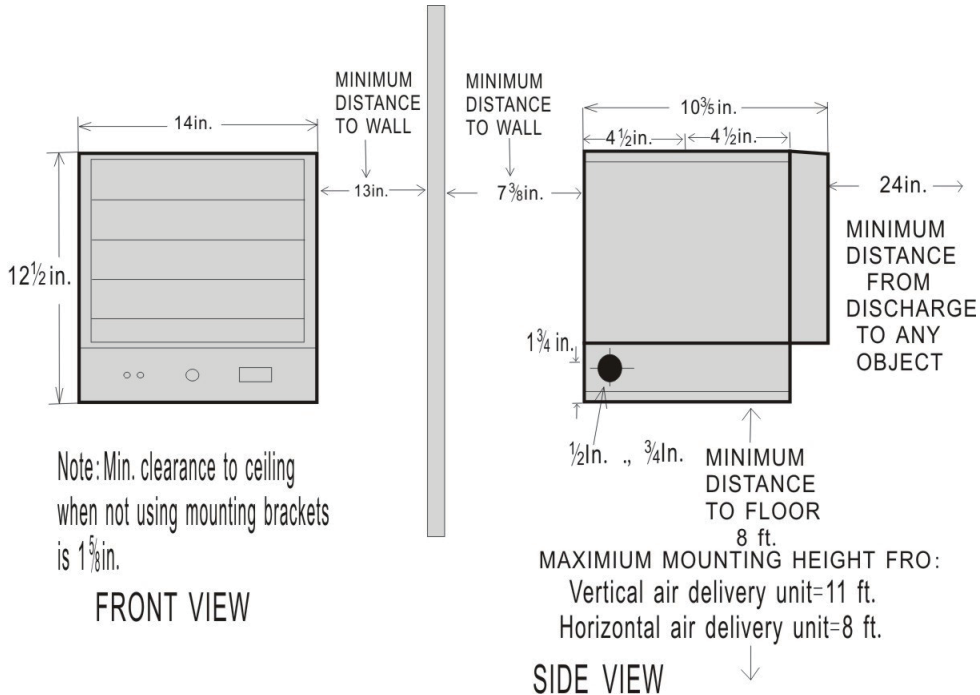


Figure 2

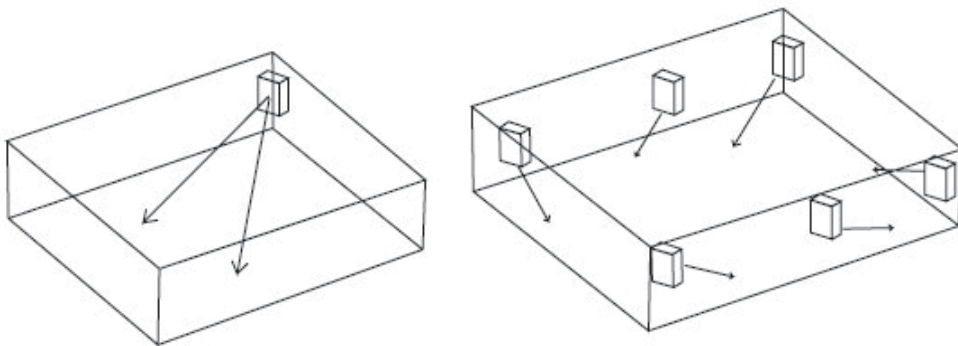
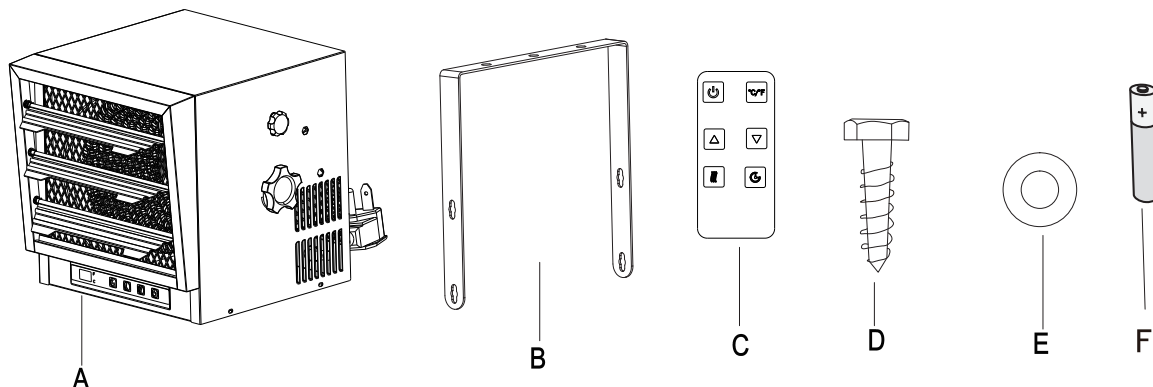


Figure 3

PRE-INSTALLATION



Part	Description	Quantity
A	Garage Heater	1
B	Mounting Bracket	1
C	Infrared Remote Control	1
D	Screw	3
E	Washer	6
F	Battery	2

INSTALLATION

MOUNTING THE BRACKET

Refer to Figures 4a and 4b.

1. Locate a wood stud in the wood ceiling joist. If you cannot locate a wood stud, you have to install a wood piece on the ceiling as this heater must be securely fastened.
2. Remove the mounting bracket from the heating unit by loosening bracket screws with a wrench and slipping the handle off over the screw heads.
3. Place a washer on screws before inserting through the holes in the mounting bracket and screw them securely into a ceiling joist.

NOTE: If you want to swivel the heater either to the right or left adding a washer to both sides of the bracket is recommended. A longer lag bolt may be required to properly secure the unit. See Figure 4a.

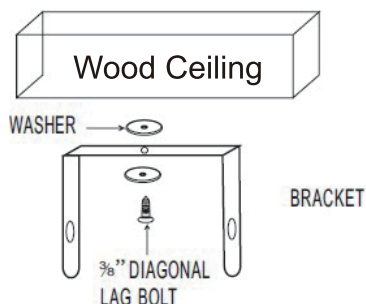


Figure 4a. Single-Screw Mounting

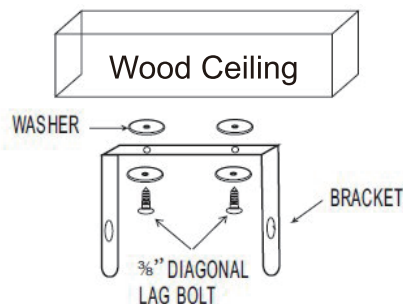


Figure 4b. Double-Screw Mounting

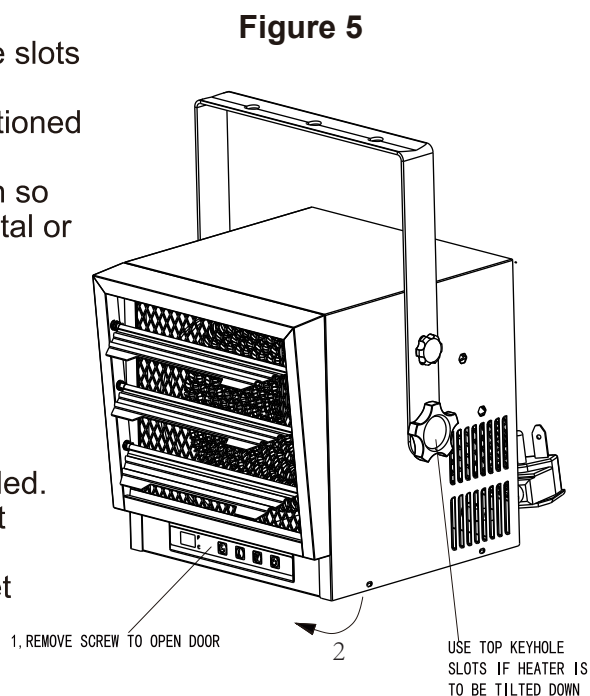
INSTALLATION

HANGING THE HEATER

1. Attach the heating unit to the mounting bracket.
2. Lift the heater up and into the mounting bracket.
3. Align the bracket screws with the keyhole slots in the mounting bracket.
4. If the heater is to be tilted it must be positioned in the keyhole slots - see figure 5.
5. Tighten the bracket screws with a wrench so the unit is securely suspended at horizontal or vertical level.

ADJUSTING AIR FLOW DIRECTION

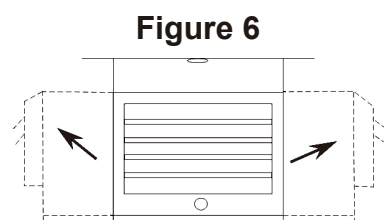
1. To turn the unit when it has been installed with a single lag bolt (as shown in figure 4a), simply turn the entire heater as needed. The unit cannot be turned horizontally if it has been installed with 2 lag bolts.
2. To tilt the unit vertically, loosen the bracket screws (see figure 5).



NOTE: For the heater to be tilted vertically, it must be mounted in bottom keyhole slots of mounting brackets to maintain adequate clearance and prevent possible overheating.

3. Adjust louvers to the desired position (see Figure 6).

NOTE: The louvers are designed so they cannot be completely closed. Do not attempt to bypass this feature; damage to the unit can result.



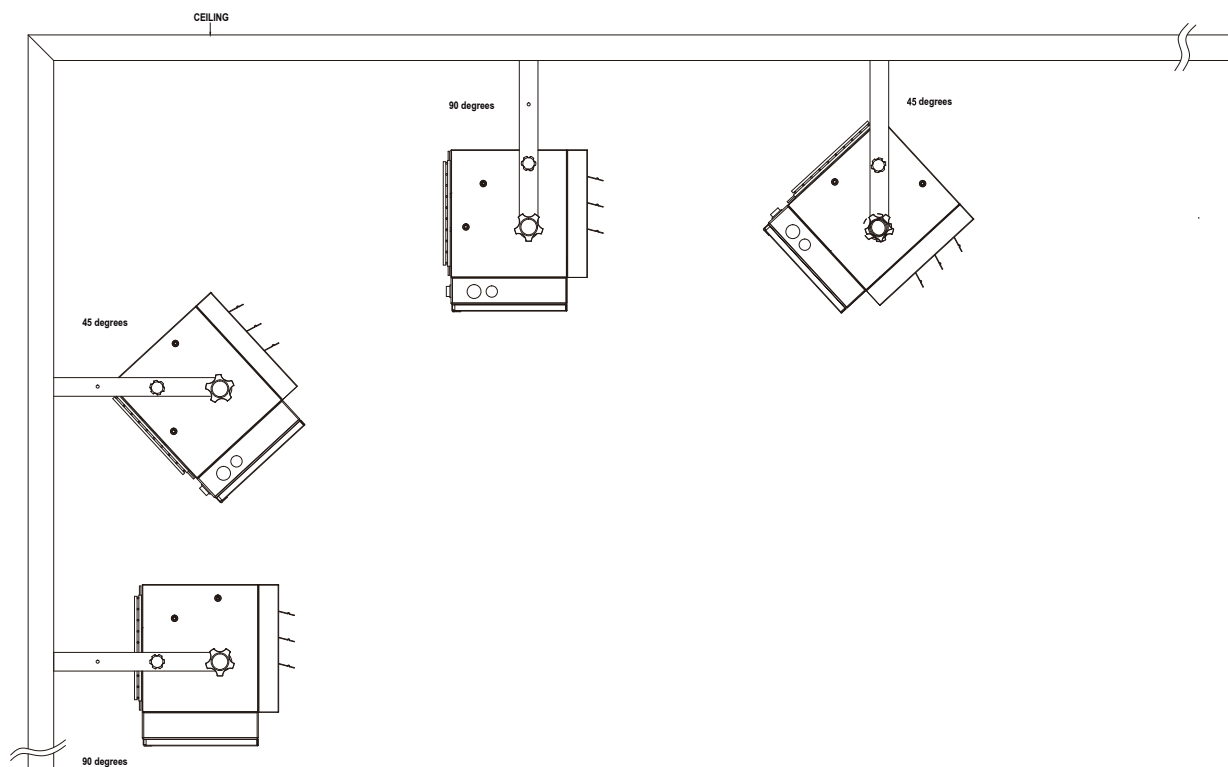
WARNING



TO PREVENT POSSIBLE ELECTRIC SHOCK, DISCONNECT POWER TO THE HEATER AT THE MAIN SERVICE BOX BEFORE ATTEMPTING TO ADJUST THE HEAT OUTPUT OF THIS UNIT.

INSTALLATION

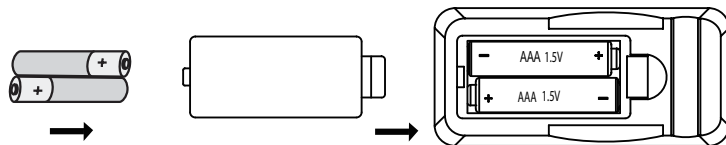
MULTIPLE VERTICAL ANGLES



BATTERY INFORMATION

BATTERY REPLACEMENT

- Do not mix old and new batteries.
- Do Not mix alkaline, Standard (carbon zinc), or rechargeable (nicad, nimh, etc.) batteries.
- Do not ingest batteries.



CAUTION:

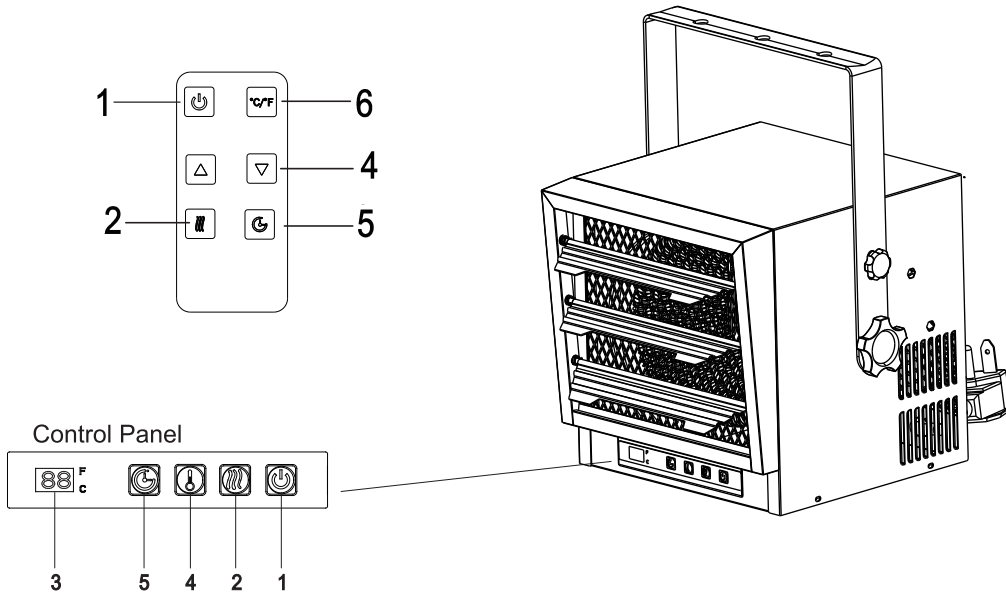
- Always purchase the correct size and grade of battery most suitable for the intended use.
- Replace all batteries of a set at the same time.
- Clean the battery contacts and also those of the device prior to battery installation.
- Ensure the batteries are installed correctly with regard to polarity (+ and -).
- Remove batteries from equipment which is not to be used for an extended period of time.
- Remove used batteries promptly.

OPERATING INSTRUCTIONS



WARNING

THE HEATER MUST BE PROPERLY INSTALLED BEFORE IT IS USED.



OPERATING INSTRUCTIONS

Check that the garage heaters outlet grill is not covered or obstructed in anyway, and make sure the power to the unit is switched on.

The garage heater control functions can be accessed in two (2) ways:

- Using the touchpad control panel, located on the front of the garage heater below the air guide plates.
- Using the multifunction remote control unit.

1. Main Power Button:

This button supplies power to all of the garage heaters functions. It must be turned on for the garage heater to work.

2. Heater Control Button:

This button adjusts the 3 heating stages: OFF , FA (Fan Only), AU(Automatic heating)

3. Temperature/Timer Display:

This LED display shows the set point for the temperature and timer functions. When either of these functions is activated, the display the set point for about 10 seconds and then fades to black. Any change to the set point of the temperature or timer will reactivate the display, which again fades after about 10 seconds.

OPERATING INSTRUCTIONS

4. Temperature Control Button

REMOTE:

▼ **DOWN Control Button:** Only in "AU", this button is used to decrease temperature.

▲ **UP Control Button:** Only in "AU", this button is used to increasing temperature.

GARAGE HEATER :

Only in "AU", this button is increasing temperature setting. To switch from Fahrenheit to Celsius, or vise-versa, hold this button for 3 seconds.

The temperature range between 10°C - 35°C (50°F - 95°F) in 1- 2°F (1°C) increments.

In the AU (heat) gear, when the set temperature more than ambient temperature 1 degrees the heater will be working, Until the ambient temperature more than set temperature, The heater is stop heating but fan will stop work after 60 seconds.

5. Timer Button:

This button controls the Timer OFF (no display) and 8 settings from 1 to 8 hours. When the Timer is turned on, it will come on at the shortest time setting (1 hour). Each time the Timer button is pressed, the time increases by 1 hour, up to the longest setting (8 hours). Once the set time expires, all garage heaters functions will be automatically turn off.

6. Fahrenheit/Celsius Button:

REMOTE:

This button displays F (Fahrenheit) or C (Celsius) depending on how the temperature mode is set. When the garage heater is turned on, the Fahrenheit (F) temperature will be displayed.

GARAGE HEATER :

To switch from Fahrenheit to Celsius, or vise-versa, when the garage heater is ON, hold HEATER CONTROL button for 3 seconds. Unless power to the unit has been interrupted, the garage heater will remember the last temperature mode setting will start at that setting.

MAINTENANCE

CLEANING AND STORAGE

The heater should be cleaning twice for a year. Turn thermostat off and remove plug from electrical outlet and make sure that the heating element of the heater is cool before cleaning heater. Use a soft cloth for dusting. For cleaning, use only a damp rag and non-abrasive dish detergent. Do not use abrasive chemical cleaners as these may harm the finish. If heater is used in very dusty location, use a vacuum cleaner dust brush to remove dust and other foreign material from the grilles. Always unplug cord and wrap around heater handle when not in use. Move heater to a safe location for storage.

SERVICE

This heater does not require any routine maintenance other than occasional cleaning to prevent clogging of intake grille opening. To clean air intake grille, use vacuum with brush attachment or high pressure air. The motor is permanently lubricated. Do not operate the heater with a damaged cord or plug or if the heater malfunctions or has been damaged in any manner. Any other servicing should be performed by qualified service personnel. Return heater to authorized service facility for examination, electrical, or mechanical adjustment, or repair.

TROUBLESHOOTING

PROBLEM	DISPLAY CODE	ROOT CAUSE	CORRECTIVE ACTION
Unit is not heating	Display shows "EE"	The thermostat sensor is broken or disconnected.	Please call customer service.
	The product does not have electricity entering	The overheat protection has activated.	Inspect the garage heater and check that the air inlets and outlets are not blocked as this may cause overheating. Switch off the circuit breaker to the garage heater for 30 minutes and allow it to cool down. Turn the power back on and operate.
	The heater button is invalid	Heater is in Lock Mode	Hold the POWER button for 10 seconds to unlock the heating function.
	Display shows "FA" and blows cold air	The heater is set to FAN ONLY mode	Change the setting and switch to "AUT" heating mode
	The heater will not start	The room temperature has already reached the set thermostat temperature	Adjust the temperature setting to make sure the thermostat setting temperature is higher than current room temperature.
	The heater will not start	The breaker has tripped	Reset the breaker at the fuse panel and restart the heater
Garage heater emits a burning smell		During production dust and/or oil debris gathered on heating coils.	Make sure the room is well ventilated. Allow the garage heater to run until the smell is dissipated.
		Check and make sure there is no combustible material within 0.9 meters (3 feet) of the garage heater.	Remove the combustible material around the garage heater.
		This heater must be mounted at least 8 feet off the floor, for specific clearances, please check the "LOCATING HEATER" section in the instruction manual	Relocate the garage heater so there is enough space between the heater and adjacent wall and floor.