

ELECTRIC SALAMANDER HEATER

INSTRUCTION MANUAL

#45BSAL20815K

#45BSAL48015K

#45BSAL48030K

TABLE OF CONTENTS

CRITICAL INFORMATION	3
HAZARD STATEMENTS	3
INITIAL SETUP	5
CLEANING	6
OPERATION	7
MAINTENANCE	8
WIRING DIAGRAMS	9

SPECIFICATIONS

MODEL	POWER RATING	VOLTAGE	PHASE	CURRENT	WIRE SIZE	BTU
SHAG-K07F	15kW	208V	3	41.6 A	8 AWG, 194°F	51,182
SHAG-K10F	15kW	480V	3	18.0 A	8 AWG, 194°F	51,182
SHAG-K12F	30kW	480V	3	36.1 A	6 AWG, 194°F	102,364



CRITICAL INFORMATION

- A licensed and insured electrician must complete installation. Failure to do so could result in injury or damage to the property.
- This unit requires 4 feet of clearance for the rear of the unit and 10 feet for the front of the unit.

HAZARD STATEMENTS

General Safety:

- **Read the Manual:** Thoroughly read and understand the manual before installing or using the heater.
- **Instruction and Training:** Instruct and train users on the safe and correct operation of the heater to prevent accidents and ensure consistent results.
- **No Modifications:** Never modify the heater's settings, components, or features outside the manufacturer's specifications. Doing so may compromise safety and void the warranty.
- **Do Not Operate Unattended:** Never operate the heater unattended to prevent accidents and maintain safety.
- **Wear Proper Apparel:** Always wear appropriate clothing. Avoid loose-fitting or hanging garments while operating the heater to prevent potential hazards.
- **Indoor Use Only:** The heater is intended for indoor use only. Do not use it outdoors to maintain safety and proper functionality.
- **Supervision Required:** This appliance should not be used by individuals without experience or knowledge unless they are supervised or instructed by a responsible person.

Electrical Safety:

- **Dedicated Circuit:** For optimal performance and safety, the heater must be connected to a dedicated electrical circuit. Sharing a circuit with other appliances can cause power fluctuations and reduce the heater's lifespan.
- **GFCI Outlets:** It is recommended to use the heater with a GFCI outlet. State and local regulations may require this.
- **Proper Voltage:** Plug the heater into a grounded outlet with the correct voltage to prevent electrical hazards. Never use an extension cord.
- **Cord Safety:** Keep cords away from wet areas and avoid letting them hang over edges or touch hot surfaces to prevent electric shock or fire hazards.

Operational Safety:

- **Hot Surface Warning:** The heater is hot when in use. Avoid touching hot surfaces and use handles, if provided, to move the heater. Keep combustible materials at least 3 feet (0.9 m) away from the heater's front, sides, and rear.
- **Overheat Control:** Monitor the heater during operation to prevent overheating. Ensure the unit has sufficient ventilation to maintain safe operation.
- **Stable Surface:** Ensure the heater is placed on a stable surface when in use to prevent accidents.
- **No Flammable Materials:** Do not use the heater near flammable materials, such as gasoline, paint, or vapors.
- **Cord Placement:** Do not run the power cord under carpets or cover it with rugs. Ensure the cord is kept away from high-traffic areas to prevent tripping.

Maintenance and Cleaning:

- **Disconnect Before Maintenance:** Always disconnect the heater from the outlet when it is not in use, before cleaning, or before removing parts.
- **Cleaning Guidelines:** Regularly clean the heater according to the instructions to ensure safe and efficient operation. Do not immerse any part of the appliance in water.
- **Chemical Usage:** Follow the manufacturer's guidelines for safe handling and storage of cleaning chemicals.
- **Inspection:** Regularly inspect the heater for signs of wear, damage, or malfunction, and address any issues promptly. If the heater malfunctions or has been damaged, contact the manufacturer for assistance.

Emergency and Labeling:

- **Emergency Procedures:** Be prepared to quickly turn off the heater in case of an emergency.
- **Instruction Labels:** Ensure all operational and safety labels on the heater are visible and legible. Do not remove any labels.
- **Alarm Feature:** This heater may include an alarm that warns of excessive heat. If the alarm sounds, immediately turn off the heater, inspect for airflow blockages, and ensure safe operation before resuming use.

Additional Safety Precautions:

- **Supervision:** Exercise caution when using the heater around children or individuals with reduced capabilities.
- **Disconnect When Not in Use:** Always disconnect the heater from power when it is not in use or during maintenance.
- **Indoor Use Only:** The heater is intended solely for indoor use and should not be used outdoors or in wet environments like bathrooms or laundry rooms.
- **Voltage and Amperage:** Verify that the heater's voltage and amperage match the electrical service provided before use.
- **Replacement Parts:** Only use manufacturer-recommended replacement parts to reduce the risk of fire, electric shock, or injury.
- **Child Safety:** Keep children away from the heater and its controls to prevent accidents and misuse.

INITIAL SETUP

Inspect the Packaging:

1. **Check for External Damage:** Inspect the exterior of the packaging for signs of dents, tears, or punctures.
2. **Open the Box Carefully:** Use scissors or a box cutter to carefully slice through the tape or seals on the box.
3. **Check for Damage:** Once the box is open, inspect the machine for any visible damage.
4. **If Damaged, Contact Manufacturer:** If damage is found, contact the manufacturer immediately with photos of the damage.

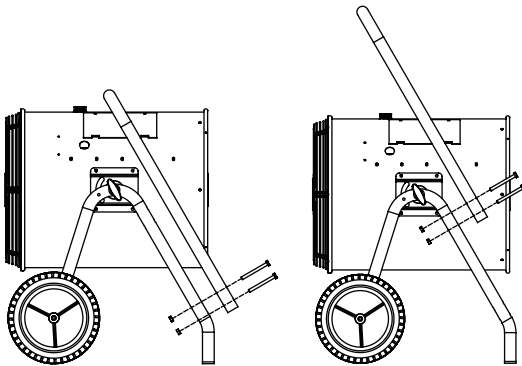
Unboxing:

1. **Lift the Machine:** With assistance, carefully lift the machine out of the packaging.
2. **Remove Packaging Materials:** Remove foam inserts, plastic coverings, and any protective materials from the inside and outside of the equipment.
3. **Keep Important Documents:** Set aside the manual, warranty document, and any other product documentation.

Placement: Installation must be completed by a licensed and insured electrician or food service technician.

- **Handle Position:**

- The handle is assembled in the lower position.



- **To reposition the handle upright:**

- Remove bolts securing the handle to the support legs.
- Tilt the handle until the handle holes align with the upper holes in the support legs.
- Insert bolts to secure the handle in the full upright position.

CLEANING

Disconnect Power:

- It is required to disconnect the unit from power before any cleaning is completed.

Clean the Exterior:

- Wipe down the exterior surfaces with a damp, lint-free cloth.
- Use a mild detergent, if necessary, but avoid excessive moisture near electrical components.

Disassemble the Heater:

- Remove the protective grate on the backside of the unit using a screwdriver.

Remove Dust and Debris:

- **Vacuum Cleaner:** Use the brush attachment to gently remove dust from internal components like fan and heating elements.
- **Soft Brush:** Gently brush away any stubborn dirt or debris.
- **Compressed Air:** Use to blow out dust from hard-to-reach areas. Do this in a well-ventilated area.

Reassemble the Heater:

- Reattach the protective grate on the backside of the unit.

Test the Heater:

- Reconnect the power or gas supply.
- Turn on the heater to ensure it operates correctly.
- Listen for unusual noises and check for irregular performance.

OPERATION

General Use:

- This heater is designed to gradually increase room temperature by circulating air across the heating element.
- Best results occur when using the heater in confined spaces with standard ceiling heights.

Thermostat Control:

- Heaters include a bimetal thermostat for automatic control of the exiting air temperature.
- The thermostat knob controls the heating elements and fan functions.
 - **OFF Position:**
 - Knob turned fully counterclockwise.
 - Heater and fan are de-energized.
 - **Fan Only:**
 - Turning the knob clockwise from the OFF position to the FAN position energizes the fan only.
 - Useful for summer cooling.
 - **Heating Mode:**
 - Further turning the knob clockwise controls power to the heater and fan.
 - Highest temperature setting is at the furthest clockwise position.
 - Temperature settings range from approximately **40°F (low setting) to 100°F (high setting)**.

Important-Cool Down Cycle:

- After operating in heating mode, when shutting down the unit:
 - Rotate the control to the FAN position.
 - Allow the unit to cool down for at least three minutes.
 - This will extend the life of the unit.

Over-Temperature Limit:

- This heater is equipped with an over-temperature limit that will shut the heater down in the event of overheating.
- **If the unit activates the over-temperature limit:**
 - Determine the cause of overheating before further operation.
 - Check the heater to ensure it is not blocked in any manner.
 - Remove any blockages.
 - If no blockage is found, have the heater checked by a qualified electrician or repair service.

MAINTENANCE



Warning: Electric Shock Hazard

- Disconnect the heater from the power supply before servicing or inspecting.
- Failure to do so could result in personal injury or property damage.

Safety Precautions:

- Do not allow water to run into the interior of the heater.
 - This could create a fire or electric shock hazard.
- Store the heater in a cool, dry location when not in use to prevent dust and dirt buildup.
- Use the original packaging to repack the unit.



Caution:

- Allow the heater to cool completely before servicing or cleaning.

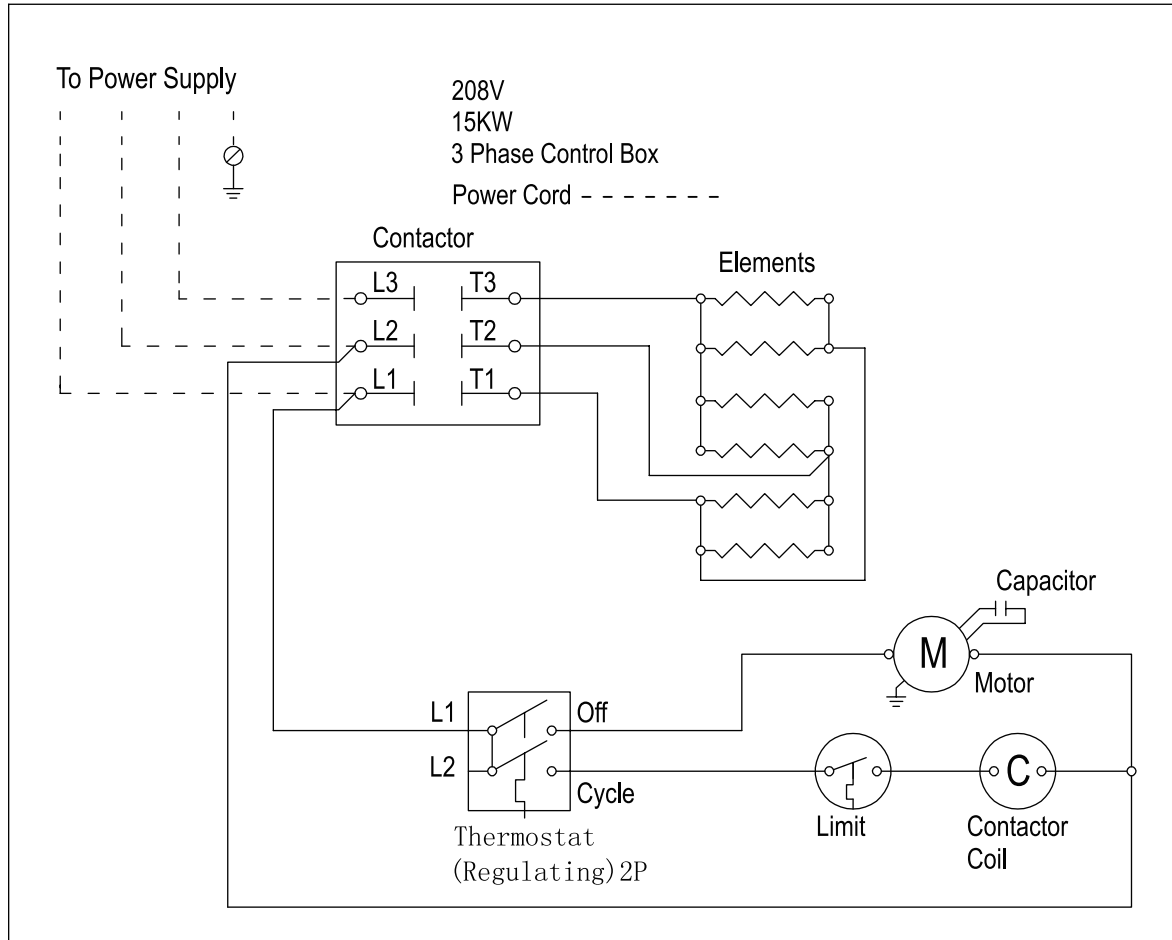
Maintenance Tasks:

- **Cords and Plugs:**
 - Replace or repair damaged cords or plugs immediately.
- **Electrical Connections:**
 - Check the tightness of all electrical connections prior to plugging in the heater.
- **Cleaning:**
 - Blow with compressed air or vacuum away any dirt or debris around the control enclosure, fan motor, or heating elements.
 - The heater housing can be wiped clean with a damp rag.

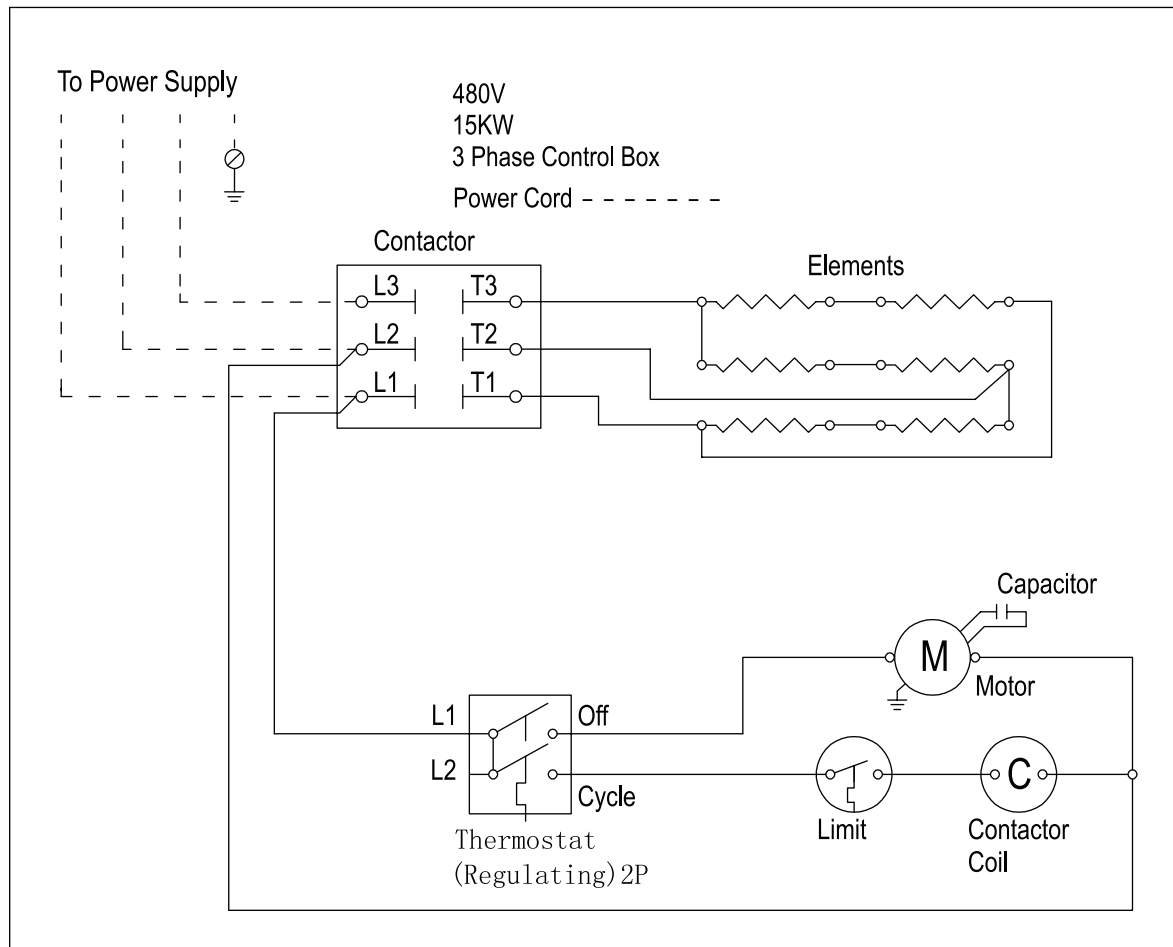
WIRING DIAGRAMS

Important: This is required to be completed by a licensed and insured electrician.

MODEL NO.: SHAG-K07F



MODEL NO.: SHAG-K10F



MODEL NO.: SHAG-K12F

