CAMMOO

Reliable, Durable, Dependable

Propane Forced Air Heater

MODEL: PH-85, PH-125

⚠ NOTES:

1. Please read and follow all safety rules and operating instructions before first use.
2. Check that all parts are present before assembling. If anything is missing, please contact us immediately.
3. **Returns:** Contact us for a free return shipping label to avoid any unexpected costs to you.
4. **Message Us:** Via the platform (Go to "Your Orders" and find this purchase).

We are committed to resolving your issue!

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I. Unboxing and Inspection

Upon receipt, please unpack and inspect the product immediately according to the following steps:

Inspection steps:

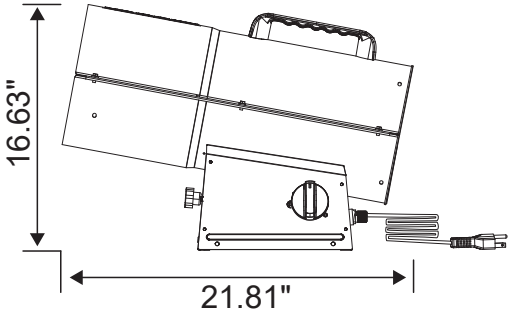
1) Open the package carefully to avoid dropping or damaging internal parts.
2) Check that all components are included.
3) Examine each part for damage, scratches, deformation, cracks, or other issues.
4) Once confirmed intact and complete, assemble and test its basic functionality.

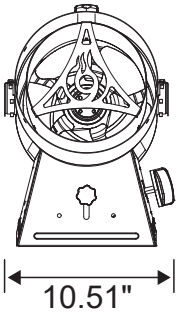
If problems are found during inspection, customer service will assist promptly.

II. Specifications

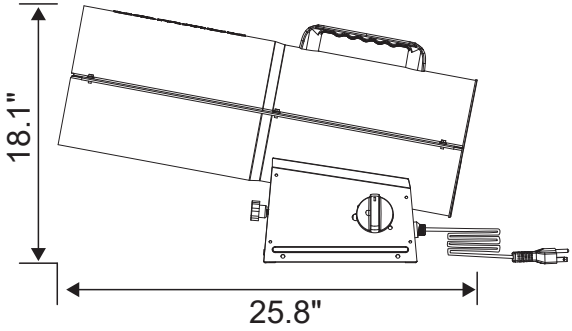
Model	PH-85	PH-125
Dimensions	21.81" x 10.51" x 16.63"	25.8" x 10.51" x 18.1"
Max Heating Capacity	85,000 BTU (25 kW)	125,000 BTU (36.5 kW)
Fuel Consumption	2.65–3.53 lbs. /hr. (1.2–1.6 kg/h)	4.4–5.8 lbs. / hr. (2.0–2.6 kg/h)
Electrical Rating	120V / 60Hz	120V / 60Hz

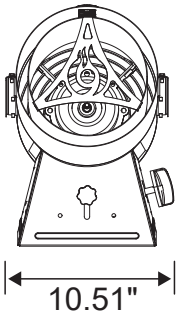
Model: PH-85





Model: PH-125





III. Safety Precautions

⚠ IMPORTANT:

To ensure safe and proper operation of this product, please be sure to read and thoroughly understand these Safety Instructions and the complete Product Manual before use, and keep it for future reference.

General Safety Information

1. Read Instructions Carefully

Read and understand this entire manual before attempting to assemble, install, operate, or service this product. Failure to comply with instructions could result in personal injury and property damage.

2. Product Certification

This heater is certified by CSA Group to comply with applicable US safety standards. Ensure compliance with all local codes and ordinances during installation and use.

FCC SDoC compliance information and FCC instruction

FCC instruction

Caution: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Responsible party

ZHEJIANG ZOBO TECHNOLOGY CO.,LTD
NO.72, Huacheng West Road, Gaoxin Zone, Yongkang, Zhejiang, China

3. Intended Use

This heater is intended for use as a temporary heat source during construction, alteration, or repair. It is NOT intended for permanent installation or residential use.

4. Pre-Operation Inspection

Maintain the minimum clearance from combustibles as specified in this manual. Before each use, inspect the surrounding area to ensure all flammable materials are removed. Place the heater on a stable, level surface in a well-ventilated area.A minimum fresh outdoor air opening of 4.65 sq. in. per 3,412 BTU/hr (30 cm^2 per kW) of the heater's total input rating is strictly required.

5. Safety During Operation

Never refuel or move the heater while it is in operation or remains hot.
DANGER: Never use this heater in residential living, sleeping, or enclosed areas. Carbon Monoxide Hazard: Failure to provide proper ventilation could result in serious injury or death.

6. Post-Operation and Storage

Always unplug the heater from the power source when not in use. Never store the heater in living areas. Store the unit in a dry, well-ventilated area, free from dust and corrosive fumes. Use the original packaging for long-term storage and keep this manual accessible for future reference.

7. Health Warnings & Carbon Monoxide (CO) Poisoning

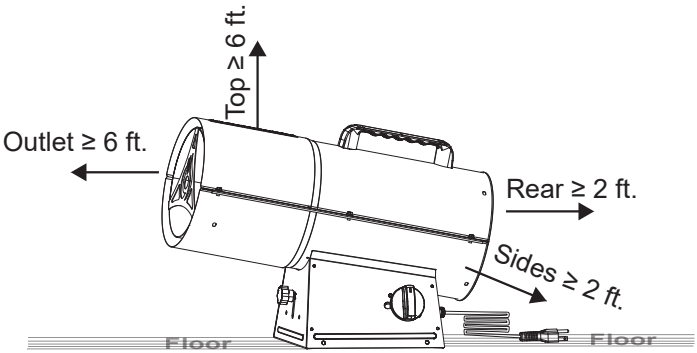
Individuals with respiratory conditions must consult a physician before operating the heater. Certain individuals are more sensitive to carbon monoxide, including pregnant women, those with heart or lung diseases or anemia, and anyone under the influence of alcohol.

⚠ WARNING:

Headache, dizziness, nausea, dry mouth, or a sore throat may be early signs of carbon monoxide poisoning or heater malfunction. Immediately ventilate the area, move to fresh air, and stop using the heater until it has been inspected by a qualified technician.

Prohibited Uses (To avoid severe hazards, do not perform any of the following)

- Never allow children, pets, or unauthorized individuals to approach, touch, or operate the heater while it is running. This product is intended for professional use only. Failure to comply will result in severe burns, electrical shock, or death.
- Do not operate this heater in wet, damp, or poorly ventilated environments. Never use the heater near flammable, explosive, or corrosive materials or gases. **Never use this heater in residential dwellings or enclosed / confined spaces, including but not limited to recreational vehicles (RVs), tents, cars, trucks, or homes. Use in these areas poses an immediate risk of carbon monoxide poisoning and asphyxiation**.
- Never place or operate this heater on wooden floors, carpeting, or any other combustible/flammable surfaces. The heater must only be positioned on a stable, non-combustible surface.
- Never store or use gasoline, volatile liquids, or any other flammable vapors and liquids in the vicinity of this heater.
- Never install ductwork to the front or rear of the heater. Do not block, obstruct, or restrict the air inlet or outlet (exhaust) under any circumstances. Proper airflow is vital for safe combustion.
- Never move, handle, service, or perform maintenance on the heater while it is operating, hot, or cooling down. Allow the unit to cool completely before touching



NOTE: Minimum clearance from walls, combustibles, and fixed objects: Sides ≥ 2 ft., Top ≥ 6 ft., Front ≥ 8 ft.

Limited Liability & Disclaimer

⚠ **NOTICE:** The manufacturer and brand owner shall not be held liable for any personal injury, property damage, or product failure resulting from misuse, abuse, unauthorized modifications, or use of non-approved accessories.

WHAT TO DO IF YOU SMELL GAS! Fuel Compatibility Warning

- **For propane (I3P) use only.** This heater is designed and certified for use with Propane (I3P) only. Using any other fuel or gas type is strictly prohibited, constitutes unauthorized operation, and poses immediate, severe safety hazards.

Immediate Emergency Actions

⚠ **WARNING: Avoid all actions that may ignite flammable gases.**

- Do not operate any electrical switches.
- Do not pull, unplug, or disconnect any power cords or extension cords.
- Do not light matches or use any other open flames or ignition sources.
- Do not use any phones (including cell phones) inside the building or affected area.

Evacuation and Isolation

- Evacuate Immediately: Evacuate all personnel and individuals from the area immediately. Ensure everyone is moved to a safe distance away from the building.
- Shut Off Gas Supply: Close all fuel supply valves on the propane (LP gas) cylinders or storage tanks immediately.

Propane (LP Gas) Physical Hazard Warning

- **Propane is heavier than air.** Propane (LP gas) is heavier than air and will accumulate / settle in low-lying areas (such as basements, trenches, or floor depressions). If a propane leak is suspected, strictly prohibited from remaining in or entering any low-lying areas; evacuate them immediately.

Reporting and Re-entry Restrictions

- Call for Help: From an outside location (completely away from the building/area), immediately call your gas supplier or local fire department.
- No Re-entry: Never re-enter the building or the affected area until it has been cleared and declared safe by qualified emergency personnel or your gas supplier.

Propane Heater Warning Instructions:

1. About This Product

- This product is a Propane (LP Gas) direct-fired, forced-air heater featuring a gas combustion system and a high-voltage ignition system. This unit is certified to comply with CSA safety standards. This heater is designed and intended for use as a temporary industrial heating appliance only. Because the products of combustion are discharged directly into the heated space, sufficient ventilation must be provided. Strictly monitor the environment to prevent the risk of carbon monoxide poisoning and gas leaks.

2. Prohibited Actions (To avoid severe hazards, do not perform any of the following)

- Do not operate in enclosed or confined spaces with insufficient ventilation. Failure to comply may result in carbon monoxide poisoning, asphyxiation due to oxygen depletion, or death.
- Never use any fuel other than propane (such as natural gas, butane, acetylene, etc.). Using unauthorized gases can severely damage the equipment and easily cause gas leaks, fire, or explosion.
- Never connect, disconnect, or adjust propane cylinders or gas supply hoses while the heater is operating, ignited, or hot. Open flames and high temperatures can instantly ignite leaking gas, causing a catastrophic fire or explosion.
- Do not place or operate this heater on wooden floors, carpeting, cardboard, or any other combustible/flammable surfaces. The high-temperature chassis and air outlet can ignite these materials and cause a fire.
- Do not expose the heater to rain, moisture, or splashing water. Operating in wet conditions can cause electrical short circuits, electrical shock, and equipment damage, and may corrode gas components, leading to leaks.
- Never use or store this heater in environments containing flammable gases, combustible dust, or volatile vapors. Such environments pose an immediate explosion hazard.
- Never disassemble, modify, or bypass the thermostat, ignition system, or flame-out safety protection devices. Tampering with safety controls can cause device failure, resulting in fire, gas leaks, or carbon monoxide poisoning.
- Never move, transport, or disassemble any parts while the heater is hot. High-temperature components can cause severe burns, and moving the unit while hot may damage gas lines, leading to leaks.
- Never transport the heater while the propane cylinder is connected. Keep the cylinder disconnected during transit to prevent line loosening, gas leaks, and severe safety accidents.

- Never operate the heater if the propane cylinder valve, gas supply hose, or connectors are damaged, worn, or aging. Continued use under these conditions poses a severe risk of gas leaks and fire.
- Never light matches, spark an ignition, or operate any electrical switches if you smell gas. Electrical sparks or open flames can instantly ignite leaking gas, resulting in a severe explosion.

3. Usage and Storage Recommendations

- Use only propane (LP gas) cylinders that fully comply with applicable specifications. NEVER use expired, damaged, or over-pressurized cylinders. Sufficient ventilation must be maintained during operation; always open doors, windows, or ventilation openings as strictly required.
- Always place the heater on a stable, level, and fire-resistant/non-combustible surface. Maintain the minimum required safety clearances from all combustible materials: 2.0 ft. from the sides, 6.0 ft. from the top, and 8.0 ft. from the front (air outlet). Before using the heater for the first time, perform an ignition test outdoors and check for gas leaks; ensure the unit is completely leak-free before regular operation.
- Power the heater using only the voltage specified on the rating plate. Always connect the power cord to a properly grounded electrical outlet and use certified extension cords.
- Prior to long-term storage, always close the propane cylinder valve completely, bleed all residual gas from the supply hose/lines, disconnect the cylinder from the heater, and unplug the power cord from the electrical outlet.
- Store the heater in a dry, well-ventilated, dust-free environment, free from corrosive vapors. Propane cylinders must be stored separately from the heater, away from any heat or ignition sources, and strictly out of the reach of children.

4. Transportation and Disposal

- Before transporting the heater, ensure it is completely turned off, fully cooled down, and the propane (LP gas) cylinder is fully disconnected. Take necessary precautions to protect the unit from electrical short circuits and physical impact or collisions.
- Transporting or mailing this unit must strictly comply with local, state, and federal regulations regarding hazardous materials and gas appliances. The propane (LP gas) cylinder MUST be transported separately from the heater.
- Prior to disposing of the heater, verify that all residual gas has been completely bled from the gas lines. The heater must be recycled in accordance with local electronic and metal waste regulations.
- Do not dispose of this heater with general household waste. Propane (LP gas) cylinders must be disposed of or recycled in strict accordance with local hazardous waste regulations. Unauthorized dismantling, tampering, or illegal dumping of the cylinder is strictly prohibited.

5. Special Precautions

- If the heater experiences abnormal overheating, continuous smoke, unusual odors or noises, flame spillover, or a suspected gas leak, immediately turn off the unit, close the propane cylinder valve, disconnect the power supply, and stay away. Inspect the equipment only in a well-ventilated area.
- If you experience any symptoms of carbon monoxide poisoning, such as headaches, dizziness, nausea, or stinging/irritation in the eyes and nose, move to fresh air immediately and seek medical attention.
- High-temperature surfaces of the heater (including the air outlet, combustion chamber, and outer shell) will cause severe burns. Do not touch these parts during operation.
- The flame-out safety control and overheat protection are critical safety devices. If these devices frequently trigger the heater to shut down, it is strictly prohibited to bypass, short-circuit, or continue using the unit. The heater must be inspected and serviced by a qualified technician.
- All gas connections must be performed outdoors, and only when the heater is turned off and completely cooled. After connecting, a soap and water solution must be used to test for gas leaks. Never operate the heater until it is confirmed to be completely leak-free.

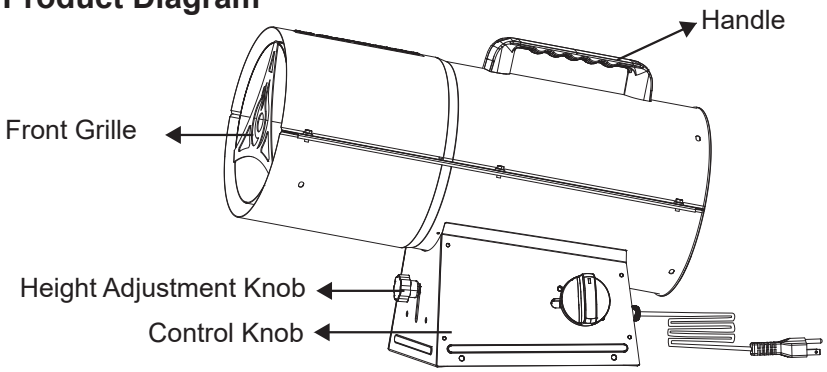
6. Disclaimer of Liability

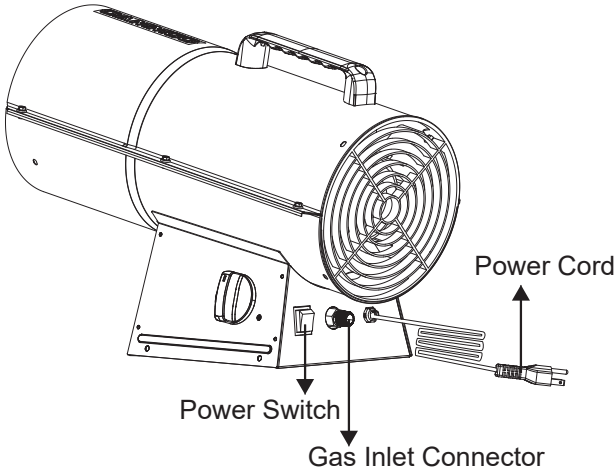
We shall not be held liable for any damage, personal injury, or property loss resulting from:

- Failure to operate the product according to these warning instructions and the User Manual.
- Use of unqualified fuel, non-genuine parts, or unauthorized modifications. Improper use in enclosed, unventilated spaces, or in household and residential living areas.
- Misuse, abuse, negligence, improper refueling, improper movement, or accidents. Issues caused by force majeure.

IV. Product Diagram and Part List

1. Product Diagram





2. Part List

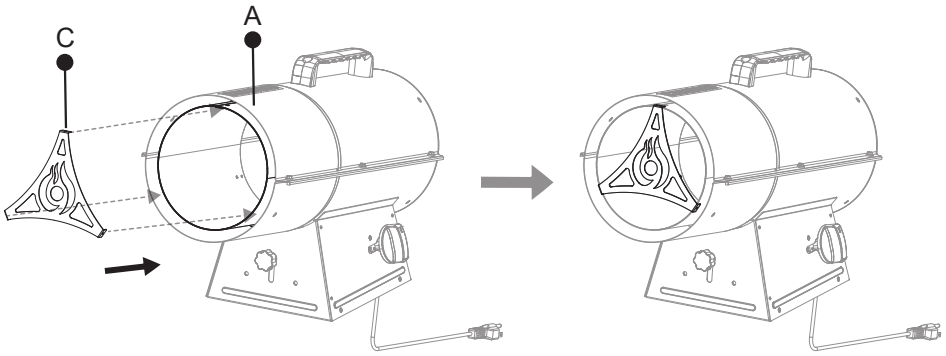
Part No.	Description	Picture	Quantity
A	Main Heating Unit		1
B	Gas Supply Hose		1
C	Front Grille		1

V. Assembly Guidance

Step 1: Front Grille Installation

Part No.	Description	Picture	Quantity
A	Main Heating Unit		1
C	Front Grille		1

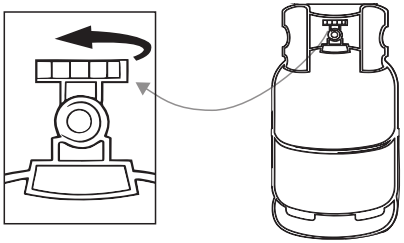
Align the three tabs on the front grille (C) with the corresponding slots on the main heater unit (A) air outlet, then press inward until they snap securely into place.



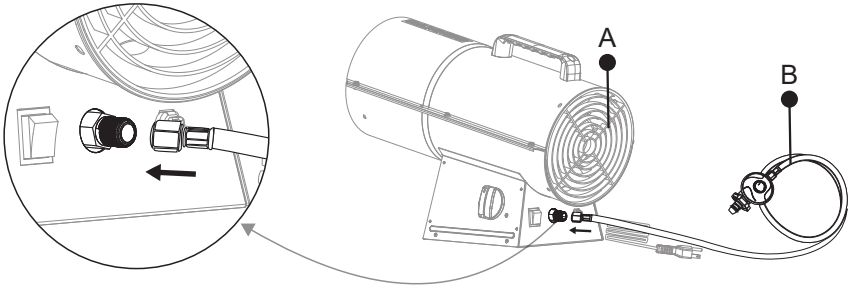
Step 2: Gas Connection and Setup

Part No.	Description	Picture	Quantity
A	Main Heating Unit		1
B	Gas Supply Hose		1

1. Verify Cylinder Status: Confirm that the propane cylinder valve is completely closed. Rotate the cylinder valve knob clockwise until it stops (as shown in the diagram).



2. Connect Gas Supply Hose: Connect the smaller end of the gas supply hose (B) to the gas inlet at the rear of the heater (A) (as shown in the diagram).



3. Connect Regulator to Cylinder: Thread the POL fitting of the hose and regulator assembly into the propane cylinder valve. Ensure the connection is properly and securely aligned, then slowly open the propane cylinder valve.

NOTE: If the cylinder valve is opened too quickly, the excess flow safety device inside the regulator may automatically shut off the gas supply. If this occurs, close the cylinder valve completely, wait for one minute (or until you hear a "click" sound), and then slowly reopen it.

4. Leak Testing: Before operating the heater, use a professional gas leak detector or a soap and water solution (1:1 mixture ratio) to check all connections and joints for leaks.

WARNING: It is strictly prohibited to use an open flame to check for gas leaks!

VI. Operation Instructions

WARNING: For safety and optimum performance, this heater is designed and certified for use with Propane (LP Gas) only. It is strictly prohibited to use any other fuel or gas types, including but not limited to natural gas, butane, or acetylene.

Operation

Precautions:

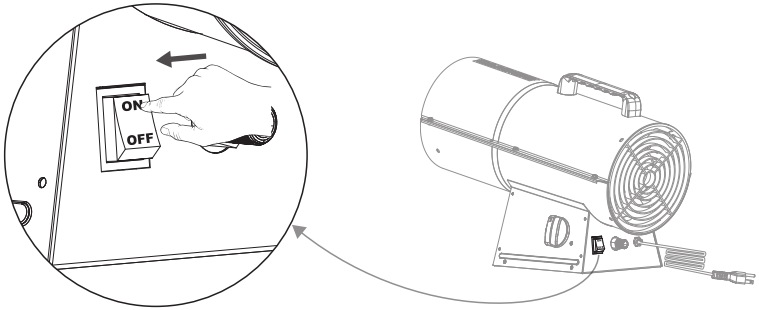
- Before and after use, thoroughly inspect the heater, regulator, hose, and the POL fitting with O-ring to ensure all components are undamaged. It is strictly prohibited to operate a damaged heater or hose assembly.
- Ensure the heating area is well-ventilated and free from moisture or combustible dust. Keep the unit far away from all combustible materials as specified in this manual.
- A minimum fresh air opening of 30 square centimeters per kW (4.65 sq. in. per 3,412 BTU / hr) of heat output must be provided.

  It is strictly prohibited to place any propane cylinder within 20 feet (6 meters) of the heater air outlet. The propane cylinder must always be securely positioned behind the heater. NEVER place the cylinder in front of the heater.

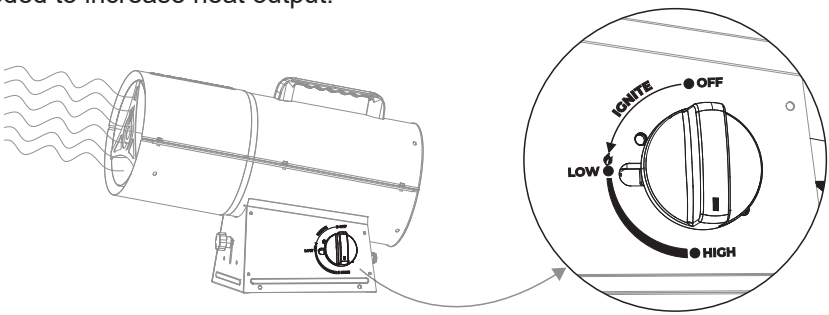
Steps:

1. Pre-start Setting: Once equipment preparation is complete, rotate the control knob clockwise to the OFF position.
2. Electrical Connection: Plug the power cord into a properly grounded 120V AC, 60Hz wall outlet. If an extension cord is required, it must be properly grounded and meet the following wire gauge specifications:
   1) 6-10 feet (1.8-3 meters): Use an 18 AWG cord.
   2) 11-100 feet (3.4-30.5 meters): Use a 16 AWG cord.
   3) 101-200 feet (30.8-61 meters): Use a 14 AWG cord.

3. Fan Purge Cycle: Turn the Power Switch to the ON position. The Motor Assembly will start, and the Fan Blade will rotate. Let the fan run for 30 seconds to purge any residual gas from the heater.



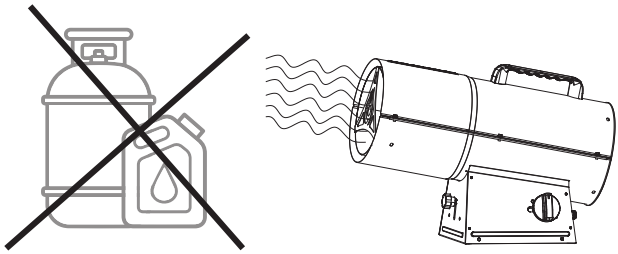
4. Gas Odor Check: Wait for five minutes to allow any remaining propane gas to fully disperse. During this period, sniff carefully to check for any gas odor. If no gas odor is detected, proceed to step 5. If a gas odor is detected, STOP immediately and handle the issue according to the gas leak protocol in this manual.
5. Open Gas Supply: Rotate the propane cylinder valve counterclockwise to open the fuel supply.
6. Igniton: Press down and rotate the control knob counterclockwise to the IGNITE / LOW position. Hold the control knob down continuously for 30 seconds until the heater ignites, the thermocouple is sufficiently heated, and a stable flame is established. Release the control knob, and the heater will operate in the low heat setting. If ignition is unsuccessful, ventilate the area for several seconds before repeating the above procedure. If the heater fails to ignite after three consecutive attempts, allow the unit to ventilate completely for 5–10 minutes and refer to the troubleshooting chart for corrective actions.
7. Temperature Adjustment: Rotate the control knob to the HIGH position as needed to increase heat output.



NOTE: This heater features a continuous spark ignition system. Regardless of the control knob position, the igniter will continuously emit a clicking / ticking sound before ignition, during ignition, and throughout operation. This is a completely normal occurrence.

Shutting Down

1. **Post-Operation Purge:** Press down and rotate the control knob clockwise to the OFF position, and allow the fan to continue running for 30 seconds to clear and purge any residual gas inside the equipment.
2. **Disconnect Gas and Power Control:** Rotate the propane cylinder valve clock wise to completely close the fuel supply. Then, flip the power switch to the OFF position.
3. **Final Disconnection:** Wait for the equipment to cool down completely, then disconnect the power cord from the electrical outlet.

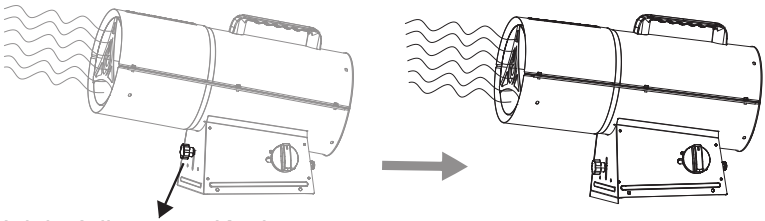


WARNING:

- Before disconnecting, ensure the cylinder valve is completely closed.
- Keep the area free of open flames, sparks, or ignition sources when replacing cylinders.
- If a gas leak is detected: Immediately close the valve, maximize ventilation by opening doors and windows, do not operate any electrical switches, and contact the fire department immediately.

Height Adjustment

Adjusting the Air Outlet Height: To adjust the discharge height, simply loosen the height adjustment knob located at the front of the equipment base (as shown in the diagram). Press down on the loosened knob to position the heater, allowing you to change the discharge angle of the hot air.



Height Adjustment Knob

WARNING: This operation must be performed only when the equipment is completely disconnected from the power supply and the gas supply is fully closed. All safety distance and clearance requirements must be strictly maintained during this process.

VII. Maintenance and Care

WARNING: Never perform maintenance while the heater is connected to a power supply or hot! Use only original equipment manufacturer (OEM) replacement parts. Using third-party parts may cause dangerous operating conditions and will void your warranty.

1. Maintenance

- Regular inspection and cleaning can reduce maintenance needs and keep the heater in good working condition.
- When the heater is running, the motor must have good ventilation. Therefore, DO NOT block or obstruct the air inlet.
- If the power cord needs to be replaced, it must be operated by the manufacturer or its authorized agent to avoid safety hazards.
- Always unplug the power cord before leaving the equipment idle, making any adjustments, or performing servicing and maintenance.
- Keep the heater clean, especially the fan guard and the fan blades.
  Store the heater in a dry, clean, and safe location, away from the reach of children.
- The heater must be inspected by a qualified professional at least once a year.

  The gas supply hose and its threaded connectors must be inspected frequently. You may use a professional gas leak detector or a simple soap and water solution (1:1 mixture ratio) to perform leak testing.
- All repairs and maintenance must be performed by qualified professional personnel.

2. Storage

- Store the unit in a dry, well-ventilated, dust-free area, free from corrosive vapors. Pack the heater in its original packaging and keep this user manual in an easily accessible location.
- If the heater must be stored indoors, you must disconnect the connection between the propane cylinder and the heater. Remove the cylinder and store it separately in strict accordance with the Standard for the Storage and Handling of Liquefied Petroleum Gases (ANSI/NFPA 58) and the Natural Gas and Propane Installation Code (CSA B149.1).

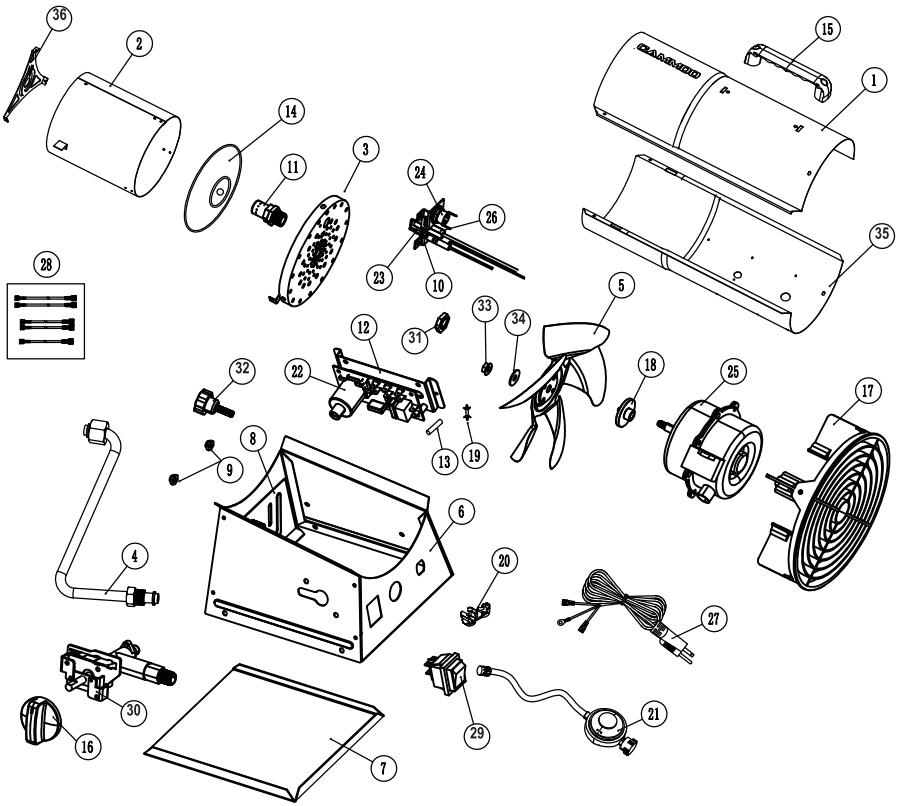
3. Important Notices

- To ensure safety, it is strictly prohibited to use non-original parts for replacement or modification.
- This manual cannot cover every situation. If you have any questions regarding operation or maintenance, you must receive adequate training or consult a professional.

VIII. Troubleshooting

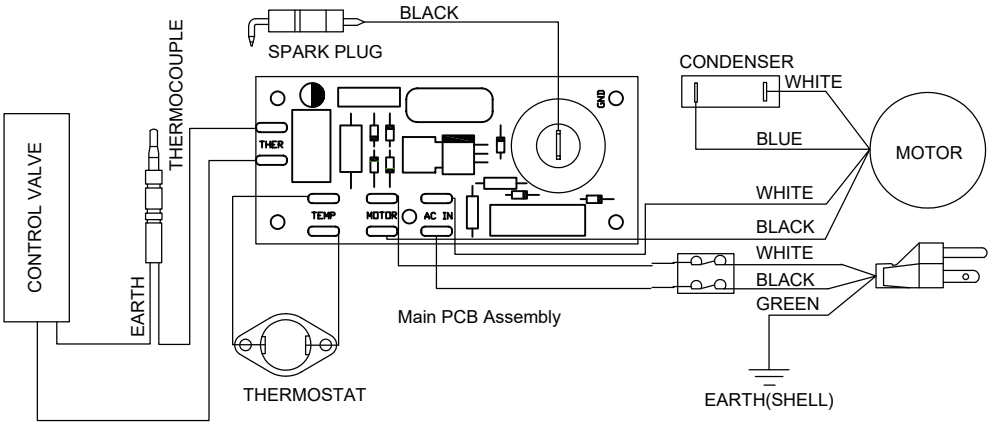
No.	Problem	Possible Cause	Solution
1	Fan does not rotate after power is turned on	No power supply	Check the power supply
		Fan blade (NO.5) stuck by the outer cylinder	Replace or repair the outer cylinder
		Fan blade (NO.5) is deformed	Re-align all fan blades (NO.5)
		Motor assembly (NO.25) failure	Replace the motor assembly (NO.25)
2	Heater fails to ignite	No spark from the ignition module (NO.26)	Must be repaired by qualified professional personnel
		Ignition wire (NO.26) has disconnected or fallen off	Must be repaired by qualified professional personnel
		The gap between the spark plug (NO.26) and the burner head is too large	Adjust the gap to within 0.16 inches
3	Heater shuts down automatically	Internal temperature is too high, triggering the thermostat (NO.24) to shut down the device	If the air inlet is obstructed, it will cause internal overheating. Ensure the areas in front of and behind the heater are completely free of obstructions
		Control valve (NO.30) is damaged	Replace the control valve assembly (NO.30)
		Dust accumulation or debris build-up inside the device	Clean the inside of the device
4	Flame goes out during operation	Thermocouple (NO.23) is not heated sufficiently	Repeat the ignition process. Hold down the gas safety valve (NO.16) for at least 30 seconds before slowly releasing it
		Thermostat (NO.24) is triggered	Allow the heater to cool down for at least 10 minutes. Check for and clear any obstructions before attempting to restart the ignition
		Airflow is restricted	Inspect the heater air inlet and air outlet, and clear all obstructions

Exploded Parts Diagram



NO.	Part Name	NO.	Part Name	NO.	Part Name
1	Upper Shell	13	Sleeve	25	Motor Assembly
2	Inner Cylinder Assembly	14	Burner Head Cover	26	Spark Plug
3	Burner Mounting Plate	15	Handle	27	Power Cord
4	Gas Tubing Assembly	16	Control Knob	28	Grounding Wire
5	Fan Blade	17	Fan Guard	29	Power Switch
6	Control Box	18	Fan Hub	30	Control Valve Assembly
7	Control Box Base	19	PCB Nylon Standoff	31	Burner Locknut
8	Height Controller	20	Power Cord Clip	32	Height Adjustment Knob
9	Height Controller Spacer	21	Regulator and Hose Assembly	33	Hexagon Flange Locknut
10	Spark Plug Bracket	22	Main PCB Assembly	34	Flat Washer
11	Burner Head	23	Thermocouple	35	Lower Shell
12	PCB Bracket	24	Thermostat	36	Front Grille

Wiring Diagram



IX. Customer Service and Warranty Policy

We kindly ask that you email us directly from the marketplace where your product was purchased, along with the attached images and a description of your claim. This ensures we can assist you promptly.

If You Need to Return or Replace the Item

When you initiate a return or replace, please provide us with the genuine reason for your return in the comments section. This feedback is invaluable to us as it helps us continually improve our products and services. To ensure a smooth return or replace process, please retain the original packaging and include all components. Returns lacking the original packaging may be subject to refusal.

If You Need to Replace Parts

To ensure that we provide you with the correct replacement parts, please take clear photos of the parts that need to be replaced and the text markings on the box. This step is essential for our team to accurately identify your product number and the specific parts you require.

If You Received a Defective Item

Please take a clear photo of the damaged part and the text markings on the box. These photos will help us assess the situation and provide you with the best possible solution. If you need to return or replace the item, please retain the original packaging and include all components. Returns lacking the original packaging may be subject to refusal.

Manufacturer: Shenzhen Cammoo Trade Co., Ltd.

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MADE IN CHINA