

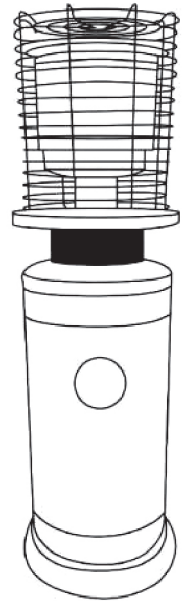
PATIO HEATER

Owner's Manual

Please keep this manual for future references.

Do not operate this patio heater before reading the instruction booklet.

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- For outdoor Use only.
- Read the instructions before installation and use.
- Keep the instructions for future reference.



- Do not store , use gasoline or other flammable vapors and liquids in the vicinity of any other appliance.
- An LPG cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.



- Turn off the gas valve immediately if the smell of gas is detected.
- Extinguish any open flame.
- If odour continues , contact your gas supplier immediately.



The user assumes all risk in the assembly and operation of the gas heater . Failure to follow the warnings and instructions in this manual can result in severe personal injury , death or property damage. If the user cannot read or fully understand the instruction manual , please contact your dealer.

Manufacturer or supplier will not be responsible for user's negligence.

CAUTION

PLEASE READ CAREFULLY THE FOLLOWING SAFETY GUIDELINES BEFORE OPERATION.

- Installation and repair should be done by a qualified service person. Improper installation, adjustment, alteration can cause personal injury or property damage.
- Do not attempt to alter the unit in any manner.
- This appliance must be installed and the gas cylinder stored on accordance with the regulations in force.
- Do not move or transport the appliance when in operation.
- Shut off the valve at the gas cylinder or the regulator before moving the appliance.
- The tubing or the flexible hose must be changed within the prescribed intervals.
- In case of strong wind particular attention must be taken against tilting of the appliance.
- Do not store or use gasoline or other flammable vapors or liquids in the heater units.
- The whole gas system, hose regulator, pilot or burner should be inspected for leaks or damages before use.
- All leak tests should be done with a soap solution. Never use an open flame to check for leaks.
- Do not use the heater until all connections have been leak tested.
- Turn off the gas valve immediately if the smell of gas is detected.
- Do not move the heater after it has been turned off until the temperature has cooled down.
- Keep the ventilation opening of the cylinder enclosure free and clear of debris.
- Do not paint radiant screen, control panel or top canopy reflector.
- Control compartment, burner and circulation air passageways of the heater must be kept clean.

- Frequent cleaning may be required as necessary.
- The LPG tank should be turned off when the heater is not in use.
- Check the heater immediately if any of the following exists.
 - The heater does not reach temperature.
 - The burner makes popping noise during use(a slight noise is normal when the burner is extinguished).
 - Smell of gas in conjunction with extreme yellow tipping of the burner flames.
- The LPG regulator/hose assembly must be located out of pathways where people may trip over it or in an area where the hose will not be subject to accidental damage.
- Any guard or other protective device removed for servicing the heater must be replaced before operating the heater.
- Change that the regulator seal is fitted and that it is in good condition.
- Check that the regulator seal is fitted and that it is in good condition.
- Do not obstruct the ventilation holes of cylinder housing.
- Adults and children should stay away from the high-temperature surface to avoid burns or clothing ignition.
- Children should be carefully supervised when they are in the area of the heater.
- Clothing or other flammable materials should not be hung on the heater or placed on or near the heater.
- Rubber hose can be replaced and note the length of the hose is 60 cm. And the hose must be able to withstand national conditions.
- LPG Characteristics-Flammable , explosive , heavier than air-settles in low areas.
- In its natural state , propane has no odour. For your safety , an odorant is added that smells like rotten cabbage.
- Contact with liquid LPG can cause freeze burns to skin.
- This heater is shipped from the factory for LPG gas use only.
- Use only On Gas approved (Max:15 KGS). Gas cylinders LPG gas cylinders (same as commonly used on gas grills) with safety valves. These valves can be quickly identified

by their external and internal threads.

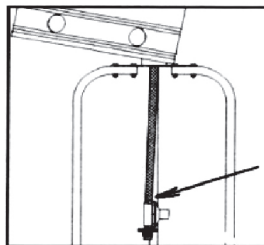
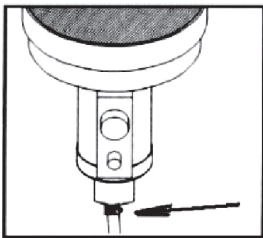
- Never use a cylinder with a damaged body , valve , collar or foot ring.
- When the heater is not in use , turn Control Valve OFF , Close the valve of the gas cylinder or the regulator after use.
- For use outdoors only. The use of this appliance in enclosed areas can be dangerous and it "PROHIBITED".

LEAKAGE TEST

Gas connections on the heater are leak tested at the factory prior to shipment . A complete gas tightness check must be performed at the installation site due to possible mishandling in shipment due to possible mishandling in shipment or excessive pressure being applied to the heater.

- The heater must be checked with a full cylinder.
- Make sure the safety control valve is in the OFF position.
- Make a soap solution of one part liquid detergent and one part water. The soap solution can be applied with a spray bottle , brush or rag.
- Soap bubbles will appear in case of a leak.
- Leakage test points. See pictures below.
- Turn the gas supply ON.
- In case of a leak , turn off the gas supply.

Tighten any leaking fittings , then turn the gas supply and recheck. Contact your dealer for assistance if bubbles continue to appear. Never leak test while smoking.



FUEL GAS ODOUR

LPG and natural gas have man-made odorants added specifically for detection of fuel gas leaks. If a gas leak occurs you should be able to smell the fuel gas. Since Propane (LPG) is heavier than the air you should smell for the gas odour low to the floor.

ANY GAS ODOR IS YOUR SIGNAL TO GO INTO IMMEDIATE ACTION!

- Do not take any action that could ignite the fuel gas. Do not operate any electrical switches. Do not pull any power supply or extension cords. Do not light matches or any other source of flame. Do not use your telephone.
- Get everyone out the building and away from the area immediately.
- Propane (LPG) gas is heavier than air and may settle in low areas. When you have reason to suspect a propane leak, keep out of all low areas.
- Stay out of the building and away from the area until declared safe by the firefighters and your fuel gas supplier.
- FINALLY, let the fuel gas service person and firefighters check for escaped gas. Have them air out the building and area before you re-enter. Property trained service people must repair any leaks, check for further leakages, and then relight the appliance for you.

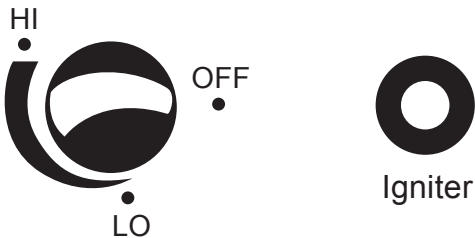
OPERATION AND STORAGE

TO TURN ON THE HEATER

1. Turn on the valve on the gas supply cylinder completely.
2. Push the control knob in it and turn it to the "PILOT" Position.
3. Press the "IGNITOR" button several times to light the burners. Hold it for 30 seconds. Release the Control Knob after the burner lights.

Note:

- If a new tank has just been connected , please allow at least one minutes for the air in the gas pipeline to purge out through the pilot hole.
 - When lighting the pilot flame make sure that the variable control knob is continuously pressed down while pressing the ignitor button. The variable control knob can be released after the pilot flame lights.
 - Pilot flame can be watched and checked from the small round window with sliding lid located at the bottom of the flame screen (to the left or right side of the controller).
 - If the pilot flame does not light or it goes out , REPEAT STEP 3.
 - a 5-MINUTES complete shutoff period is necessary before relighting.
4. Turn the Control Knob to switch to the desired temperature position.



TO TURN OFF THE HEATER

1. Turn the knob to “LO” position for a small flame.
2. Turn the knob to “HI” position for a big flame.
3. Press and turn the variable control knob to OFF position.
4. Turn off the valve on the gas supply cylinder completely.

STORAGE

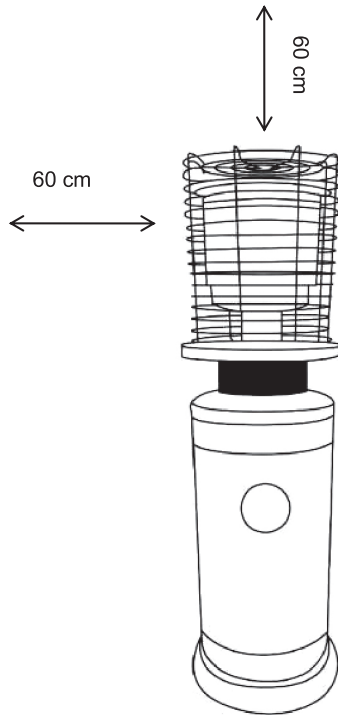
1. Always close the gas valve of the gas cylinder after use or in case of a disturbance.
2. Remove the pressure controller and the hose.
3. Check the tightness of the gas cylinder in sub-terrain , if you suspect damage , have it changed by your gas dealer.
4. Never store a liquid gas cylinder in sub-terrain , or at a place without adequate air ventilation.

Cleaning and Care

- Wipe off powder coated surfaces with a soft , moist rag. For lacquer surface , use suitable cleaners. Do not clean heater with cleaners that are combustible or corrosive.
- Remove debris from the burner to keep it clean and safe for use.

HEATER STAND AND LOCATION

- The heater is for outdoor use only. Always ensure that adequate fresh air ventilation is provided.
- Always maintain proper clearance to combustibles materials , i. e , top 60 cm and side 60 cm minimum.
- The heater must be placed on level firm ground.
- Never operate the heater in an explosive atmosphere like areas where gasoline or other flammable liquids or vapors are stored.
- Do not use strong wind.



GAS REQUIREMENTS

- Use LPG only.
- Maximum inlet pressure propane regulator must not exceed 100 PSI.
- The pressure regulator and hose assembly to be used must conform to local standard codes.
- The installation must conform to local codes, or in the absence of codes with the standard codes or with the stand for storage or handling of LPG.
- A dented , rusted or damaged propane tank may be hazardous and should be checked by your tank supplier. Never use a LPG with a damaged valve connection.
- The propane tank must be arranged to provide for vapour withdrawal from the operating cylinder.
- Never connect an unregulated propane tank to the heater.

A. Construction and characteristics:

- Transportable terrace / garden heater with tank housing
- Casing in steel with power-coating
- Soluble gas connections are equipped with metal clamp
- Steel flame screen
- The heat emission from the reflector

B. Specification

- For outdoor use only
- Use LPG
- Max. Wattage: 13 KW
- Consumption:1000 g/hr

Weight : Powder coating model G. W 16 kgs

Height: 1380 mm including stand with CE certificate

C. Table of openings

Gas Pressure mm H2O	Main Opening	Opening of Pilot Burner
280/300	1.90 mm	0.22 mm
370	1.80 mm	0.22 mm
500	1.65 mm	0.22 mm

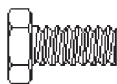
HARDWARE CONTENTS



M5 Nut
Qty 8



Bolts M5 × 10
Qty: 4 pcs



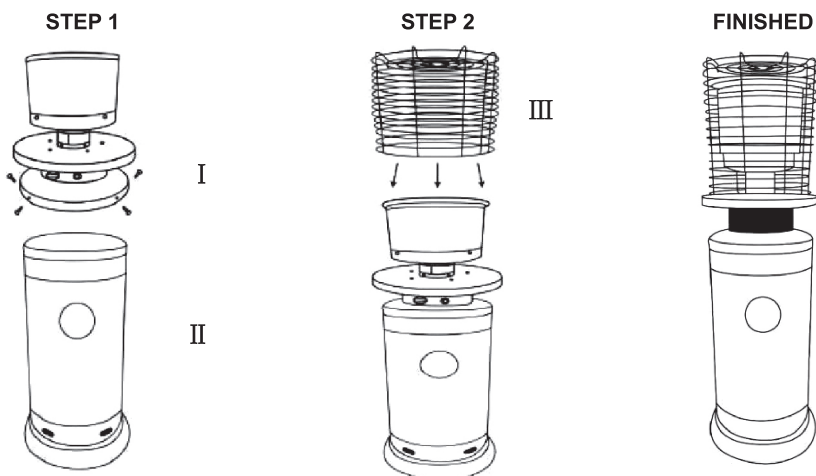
Assembly Procedures

Step 1:

- 1.1 Put the part I on the part II
- 1.2 Use 4 PCS BB M5 × 10 to join the part I and II

Step 2:

- 2.1 Put Part III on part I
- 2.2 Use 4 PCS AA TO JOIN PART III and PART I



Service and Maintenance Information

If the pilot heater fails to operate correctly , contract the place of purchase or their authorized service agent for advice and service.

DO NOT ATTEMPT REPAIRS YOURSELF.

Periodic maintenance should be performed at intervals not exceeding 6 months or when obvious faults exist.(i.e.) flame burning abnormality or burner discoloration. Flame abnormality or burner discoloration is generally a sign of gas supply blockage or blocked burner ports.

To clean the burner ports , remove the reflector assembly by removing the three nuts at the top of reflector. The mesh screen may then be extracted by removing the four retention screws at the base of the mesh screen and four screws at the top of the screen. Remove the two screws retaining the burner assembly, Rotate the burner assembly slightly then remove the burner assembly upwards.

Care should always be taken to avoid damage to the gas piping and Piezo ignition lead. The burner and mesh screen may then be cleaned by compressed air. Assembly is a reversal of the above procedure.

If the pilot is blocked by debris , spider webs etc. The pilot flame may be small and the flame failure device may have not heated up enough for the main burner to come on. If this happens it will be necessary to clean the pilot and its gas tube.

To clean the pilot , remove the burner and pilot cover as detailed above , Inspect the pilot injector and tubing for blockage. If obstructed clean with compressed air. Clean the flame failure device. Assembly is reversal of the above procedure.

- Close the valve of the gas cylinder or the regulator after use.
- Read the instructions before using this appliance.
- For use outdoors and in well-ventilated areas.
- The use of this appliance in enclosed areas can be dangerous and is **PROHIBITED**.
- The use of this appliance must be installed in accordance with the instructions and local regulations.
- Please don't leave in bad weather , wind and or rain will cause damage to the unit.
- Take extra care when unpacking and assembling Patio Heater. Some edges may be sharp form the manufacturing process and may result in cuts if not handled with care.