

# Flame Heater – PH08 SERIES

## ASSEMBLY AND OPERATION INSTRUCTIONS



### WARNING

Read these instructions before using this appliance. The appliance must be installed in accordance with the instructions and local regulations. The use of this appliance in enclosed areas can be dangerous and is PROHIBITED.

- Do the leak test after each changing of LPG cylinder.
- Never check for leaks with a match or open flame.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this appliance.

### IF YOU SMELL GAS

- Close the valve of the gas cylinder or regulator.
- Extinguish all naked flames; do not operate any electrical appliances.
- Check for leaks as detailed in these instructions.
- If odor persists, contact your dealer or gas supplier immediately.





### **IMPORTANT DO NOT RETURN**

AZ Patio Heaters insists on highest standard of quality in manufacturing your heaters. Each of them has been carefully inspected before shipment. In case of any issues, please DO NOT RETURN TO STORE.

Call us at 1-888-775-1330 between 8:00 AM to 4:00 PM PST Monday to Friday.

FOR OUTDOOR USE ONLY.  
KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE.

 <b>DANGER</b>	<p><b>CARBON MONOXIDE HAZARD</b></p> <p><b>This appliance can produce carbon monoxide which has no odor. Using it in an enclosed space can kill you. Never use this appliance in a enclosed space such as a camper, tent, car or home. Keep electrical supply cord away from the heated surfaces.</b></p>
	

**WARNING:** Improper installation, adjustment, alteration, services or maintenance can cause injury, death or property damage. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

**WARNING:  
FOR OUTDOOR USE ONLY.**

Cylinders to be used must be constructed and Marked in accordance with US DOT specifications.

Storage indoors is permissible only if the cylinder is removed.

The unit should be secured or moved indoors if winds exceed 19.5mph.

**Note:**

Use for 20lb.LPG tank, but it is not supplied.  
Use for CSA regulator with 0.6m gas hose.  
This regulator is set for an outlet pressure of 11 inches water column.

**Tools needed**

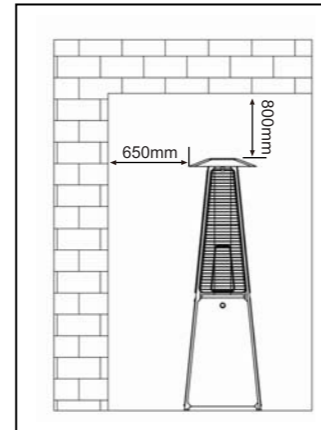
Philips head screwdriver  
Leak detection solution  
For questions, replacement parts, service Help or other assistance, pls call local service

**PRECAUTIONS**

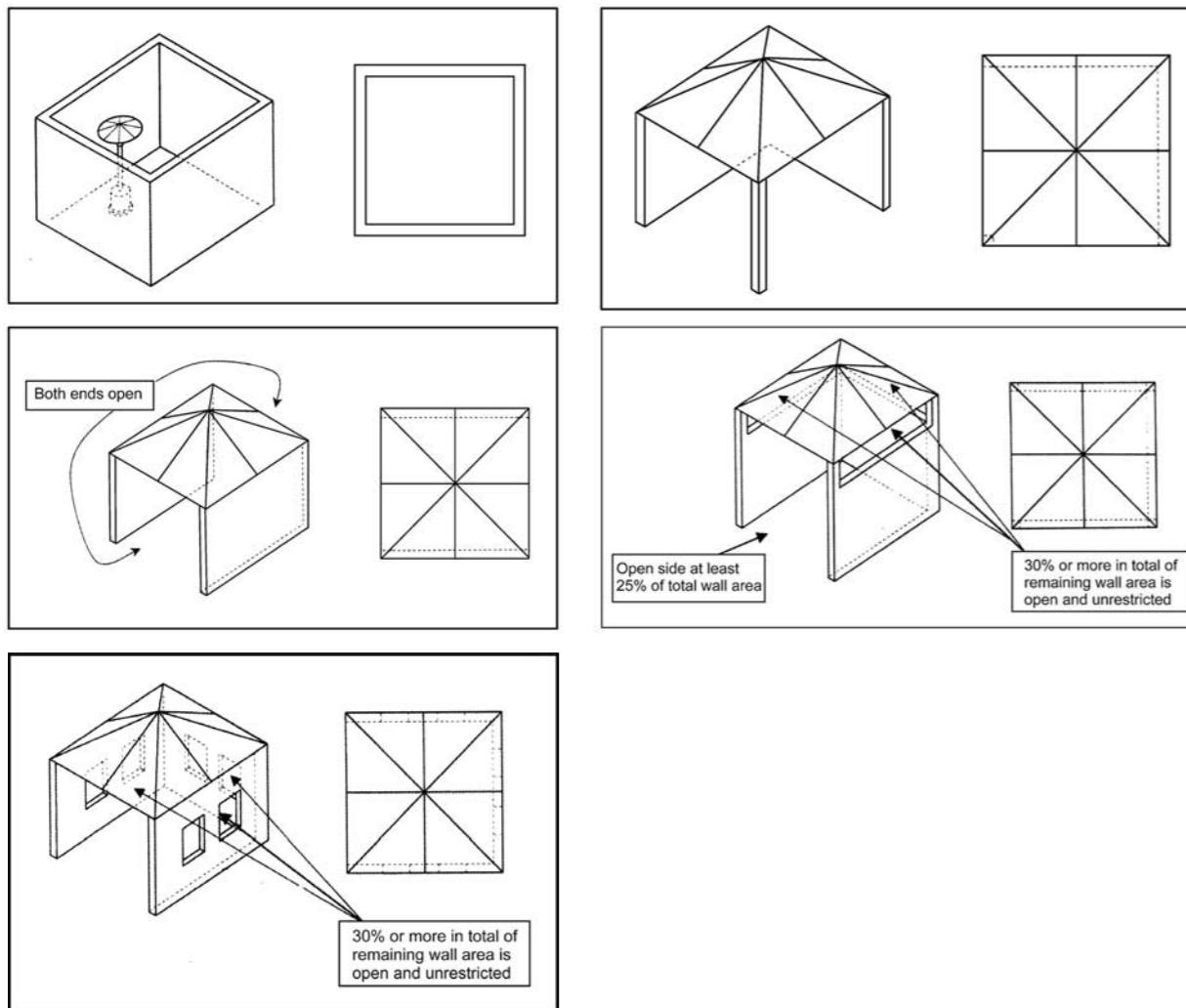
- Installation and services should only be a qualified person.
- Do not use the heater in an explosive atmosphere.
- Before use, check the hose.
- Disconnect LPG cylinder before moving the heater.
- Do not attempt to alter any parts of the heater.  
**Example:** Using the heater without reflector or protection guard.
- The appliance shall not be used in basements or below ground level.
- It must always be placed on a solid and level surface.
- Never replace or substitute the regulator use only that one is suitable both appliance category and normal pressure of gas.
- Do not clean the heater with cleaners that are combustible or corrosive.
- Do not paint protection guard, control box or reflector.
- The LPG gas cylinder valve should be turned off and disconnect the cylinder with the heater when the heater is not in use.
- Don't not use the heater when it is raining, and do not let any liquid splash to the glass tube when the heater is working.
- Keep the children away from the heater, always be carefully not to knock down the heater, which will break the glass tube and might cause injury.
- Do not move the appliance when in operation.
- After a long break of operation, the gas parts in the control box of the heater and the hose should be inspected for spiders, spider webs or other insects.
- Check the heater immediately if any of the following exists:
  1. There is smell of gas.
  2. The heater is not effective.
  3. The burner makes popping noise during use (a slight popping noise is normal when the burner is extinguished after use).
- If you smell gas, turn off the valve immediately. If smell persists, contact the dealer or gas supplier immediately.
- The hose with regulator assembly shall be stored in a safe place to avoid it's accidental damage. Children and adults should be aware of the high surface temperature hazard, and should keep a safe distance away to avoid clothes burning or igniting. Young children should be carefully supervised when they are in the working area of the heater.
- Clothing or other flammable material should not be hung from the heater, or placed on or near the heater.  
Do not obstruct the flow of combustion products.
- Keep the ventilation opening of the cylinder enclosure free and clear of debris.
- Do not obstruct the ventilation holes of the cylinder housing.
- Shut off the valve of gas cylinder or the regulator before moving the appliance.
- The tubing or the flexible hose must be changed within the prescribed intervals.
- Use only the type of gas and the type of cylinder specified by the manufacturer.
- In case of violent wind particular attention must be taken against tilting of the appliance.
- Storage of the heater indoor is permitted only if the cylinder is disconnected and removed from the appliance.  
Do not store a spare LP-gas cylinder under or near this heater.
- Never fill the cylinder beyond 80 percent full.
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## APPLIANCE STAND AND LOACTION

- The appliance is for outdoor use only. Do not use it for indoor or in an enclosed area.
- Always maintain proper clearance from combustible materials, i.e. top 800mm and sides 650mm minimum.



## DIAGRAMMATICAL REPRESENTATIONS OF OUTDOOR AREAS



## LEAKAGE TEST

Gas connections on the appliance are leak tested at the factory prior to shipment. Possible mishandling of the appliance during the shipment might contribute to product integrity as a whole. A complete gas leakage test must be performed again at the installation site. Please follow the procedure below for leakage test.

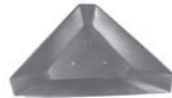




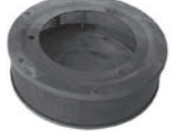






- Make a soap solution of one part liquid detergent and one part water. The soap solution can be applied with spray bottle, brush or rag. Soap bubbles will appear where a leak is present.
- Make sure the control tap is in the "OFF" position (full disk = ●) on the control panel.
- Turn on the gas supply and check for bubbles from the hoses and connections. Presence of bubble means that a leak path is present.
- If a leak is present, turn OFF the gas supply immediately, tighten any leaking fitting carefully, turn gas again and recheck.
- Never leak test while smoking.













## INSTALLATION

Important safety requirements:

**THIS APPLIANCE OUTDOOR USE ONLY**

1. This appliance shall not be installed or used indoors, in buildings, garages or any other enclosed area.
2. DO NOT place articles on or against this appliance.
3. DO NOT use or store flammable materials near this appliance.
4. DO NOT operate this appliance unless it is fully assembled with reflector and protection guard in place.
5. Installation and repair should be done by a qualified service person. The appliance must be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required as necessary. It is imperative that control compartment, burners and circulating air passages of the heater and light be kept clean.
6. Please use the pressure regulator and hose assembly supplied with the heater, the replacement pressure regulator and hose assemblies must be according to ANSI/UL 144.

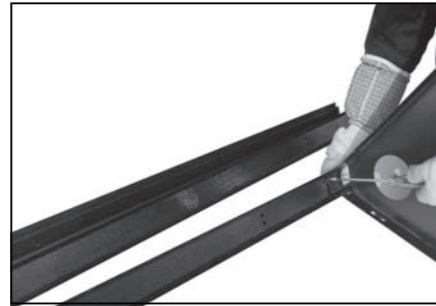
PARTS LIST-1				
PART NUMBER	PART NAME	PICTURE	QUANTITY	DESCRIPTION
A	REFLECTOR		1	
B	MESH GUARD		3	
C	LOWER ALUMINUM TUBES		3	WITH FOOT
D	UPPER ALUMINIUM TUBES		3	
E	UPPER PLATE		1	
F	FLAME SCREEN		1	
G	TWO SIDE BOLTS WITH SCREWS AND WINNING NUTS		3	CONNECT REFLECTOR TO THE FLAME SCREEN AND THEN TO THE UPPER PLATE
H	GUARD FASTENING PIECES		3	FASTENING PIECE TO KEEP THE GUARD FIRMLY IN PLACE
I	GLASS TUBE		1	
J	RUBBER RING		1	
K	MIDDLE PLATE WITH CONTROL		1	
L	FRONT PANEL		1	WITH KNOB

PARTS LIST-2				
PART NUMBER	PART NAME	PICTURE	QUANTITY	DESCRIPTION
M	SIDE PANEL A		1	
N	SIDE PANEL B		1	WITH HANDLE
O	HANDLE		1	
P	KNOB WITH CHAIN		1	ATTACH TO THE FRONT PANEL
Q	WHEEL		2	
R	BOTTOM PLATE		1	
S	BATTERY		1	OPTIONAL PART
T	STABILITY RING			ATTACH TO BASE
AA	SCREWS M6X10		8	FASTEN THE WHEELS TO THE BOTTOM PLATE
BB	SCREWS M5X10 ROUND		18	FASTEN THE BOTTOM TO THE LOWER ALUMINIUM AND FASTEN THE SIDE PANELS
CC	SCREW 3/16		14	FASTEN THE MIDDLE PLATE AND UPPER PLATE INTO THE ALUMINIUM AND CONNECT THE LOWER AND UPPER ALUMINIUM
DD	GROUND FIXER		3	

## HEATER ASSEMBLY

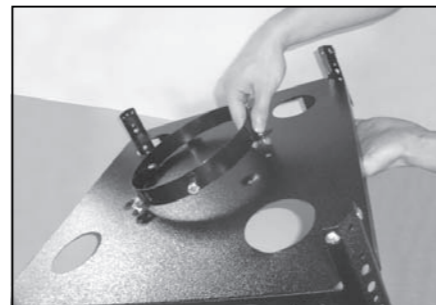
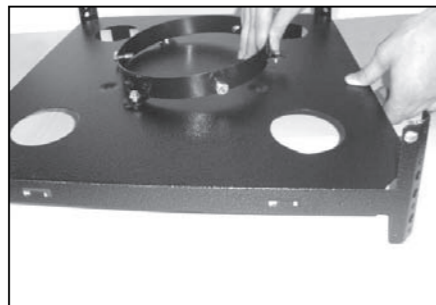
### STEP 1:

Take off the M5x10 screw(BB),attach the bottom plate(R) into the lower aluminum tubes(C).



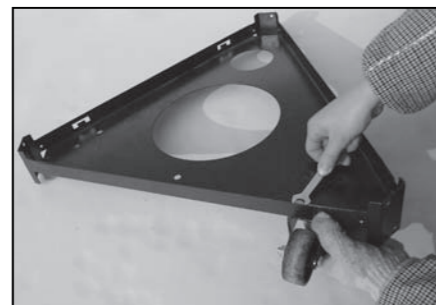
### STEP 2:

Unscrew first,then,mount the stability ring(T)to the base of the heater.



### STEP 3:

Attach the wheels(Q) into the bottom plate(R) using the screws M6X10 (AA)



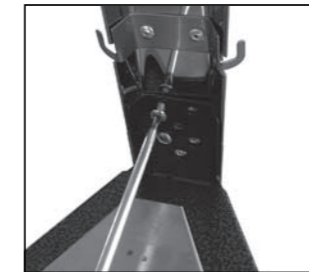
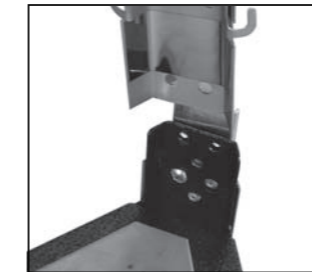
### STEP 4:

Take off 9pcs M3/16 screws(CC) from lower aluminum tubes(C),and attach the middle plate with control box(K) into the lower aluminum tubes(C) with 3pcs M3/16 screws only.  
Notice:Bottom plate with holes and the control box with knob should be at the same side, not upside down.



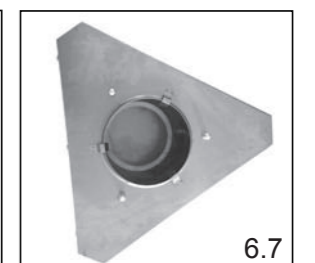
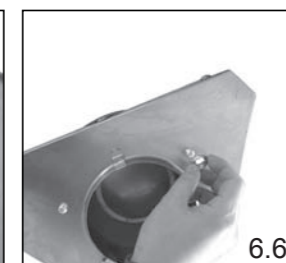
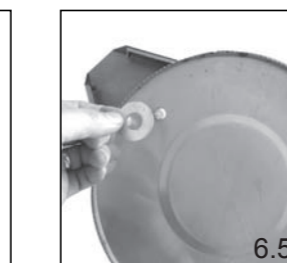
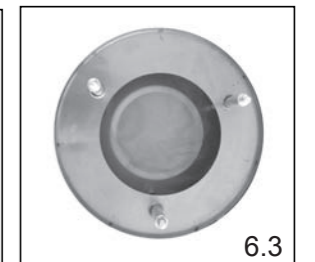
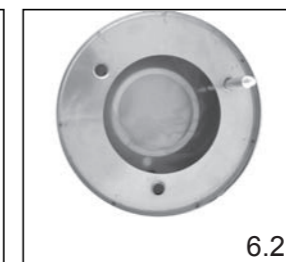
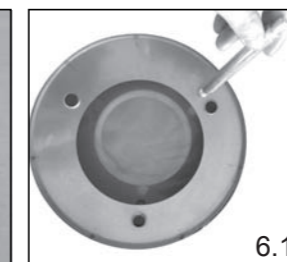
### STEP 5:

Put the upper aluminum tubes(D) into the lower ones,and use the balance 6pcs M3/16(CC) to fasten them.



### STEP 6:

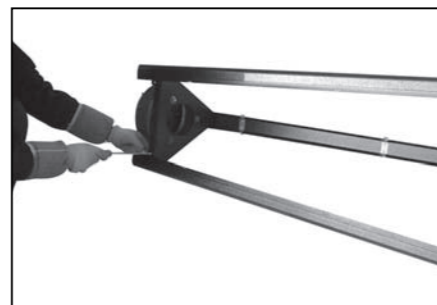
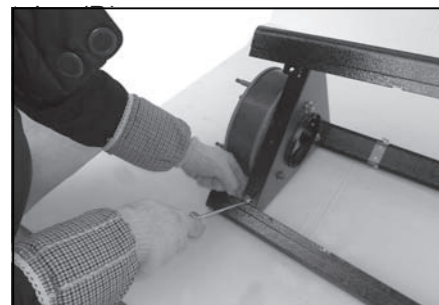
Depart the two sides bolts with winning nuts and scews(G),then combine the flame screen(F) and upper plate(E) together.





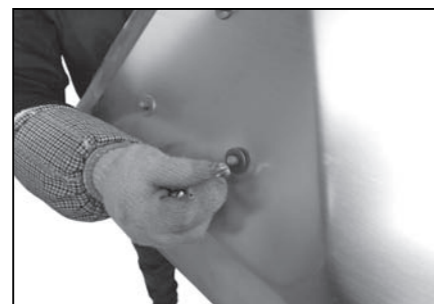
**STEP 7:**

Take off the M3/16 screws(CC)from upper plate(E),then attached the upper plate with screen into the upper aluminum



**STEP 8:**

Attach reflector(A) through the bolts,then tighten the shield with wing nuts(G)



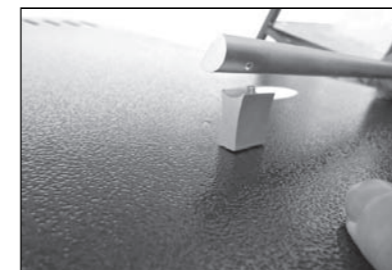
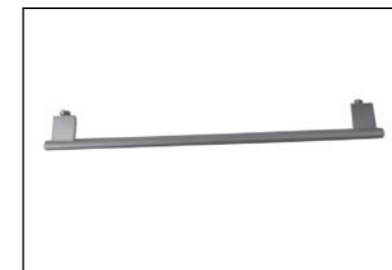
**STEP 9:**

Put the rubber ring(J) into the middle plate hole,then insert the glass tube(I) into the heater by holding the base in one hand,top in the other,and insert the tube underneath the upper plate



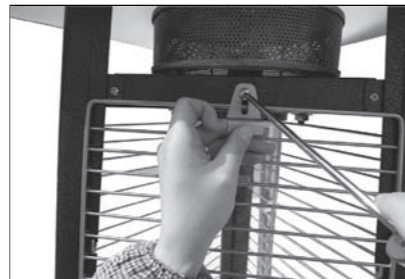
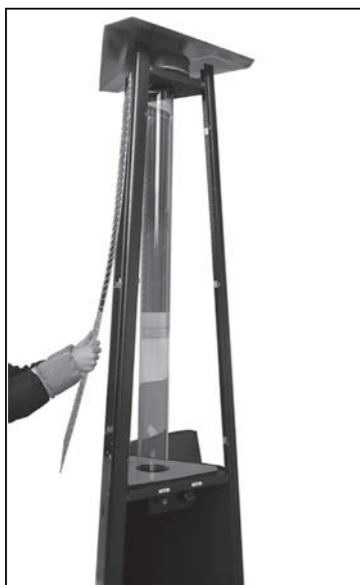
**STEP 10:**

Take off the screws from handle(O), assemble the handle(O) into the side panel B(N), then attach this panel(N) and other side panel A(M) in the heater by screws M5X10 flat (BB)



### STEP 11:

Assemble the mesh guard(B) into the heater to match the hook in the aluminum tubes, then screw the guard fastening pieces(H) together with matching 3/16 screws on the top of the upper plate to keep the mesh guard and the flame screen firmly in place.



Always ensure the heater stands firmly, the glass tube may break if the heater was fell down onto

### STEP 12:

Screw the knob with the chain(P) into the front panel(L).  
Fix the heater with ground fixer(DD) .



## OPERATION

### Preparation:

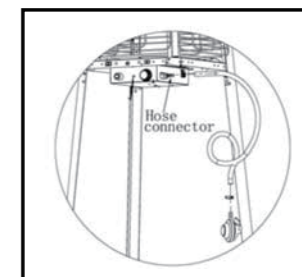
You will need to purchase a LPG cylinder designed to be used with the regulator purchased.

Connect the regulator to the LPG cylinder.

Warning:

Always test the hose for leaks with soapy water at both of the ends.

Any guard or protective device removed for servicing the heater must be replaced prior to operation.

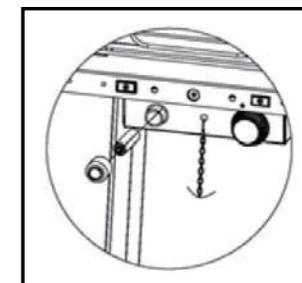


### Warning:

- Never use the heater while it is raining, the glass tube would break when it suddenly met water.
- Always turn off the heater while there is a rain.
- Never splash any liquid on the glass tube when the heater is working.
- The glass tube will be extremely hot when it is working, never try to touch it and Keep the children away from the heater.
- Always ensure the heater stands firmly, the glass tube may break if the heater was to fall down onto the ground.
- Never use the heater if the glass tube has any crack

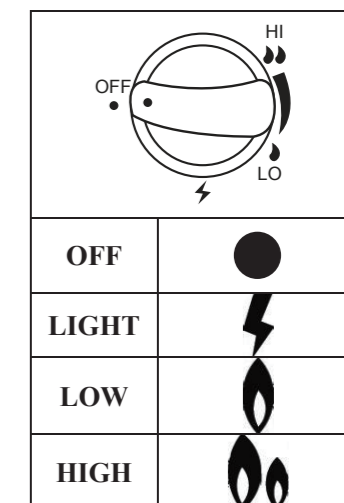
### LIGHTING INSTRUCTIONS:

Check and ensure that an AA battery is inside the ignition chamber and has power. Ensure the anode(+) faces outside.



### Warning:

1. Ensure that the control knob is OFF. Slowly open the gas cylinder valve.
2. Press and turn the control knob to LIGHT position, push the igniter to generate spark while keeping control knob in pressed position
3. Check for pilot flame through glass tube. If pilot does not light, turn control knob to 'OFF' position wait two minutes minimum and try again from the start. Some attempts may be necessary.
4. If the pilot alight, keep control knob pressed for 15 seconds then turn the control knob to 'LOW'.
5. For maximum heat turn control knob to 'HIGH'.
6. To turn heater off, turn control knob to 'OFF'.
7. Close the valve on the gas cylinder or the regulator after use.



### WARNING

FOR YOUR SAFETY:

- DO NOT touch or move heater for at Least 45 minutes after use.
- Allow all burner elements to cool before Touching.

### NOTE

- In a salt-air environment (such as near an Ocean) corrosion occurs more quickly than normal.
- Frequently check for corroded areas and Repair them promptly.
- Wait until heater is cool before covering.

## CLEANING/MAINTENANCE/STORAGE

### CLEANING AND MAINTENANCE:

- To enjoy outstanding performance of your heater for years make sure to perform the following maintenance activities on a regular basis:
- Keep exterior surfaces clean.
  - Use warm soapy water for cleaning. Never use flammable, corrosive or abrasive cleaners.
  - While washing your unit, be sure to keep the area around the burner and pilot assembly dry at all time. If the gas control is exposed to water in any way, do NOT try to use it. It must be replaced.
- After a long break from operation, the unit should be inspected for spiders, spider webs or other insects.
- Air flow must be unobstructed. Keep controls, burner and circulating air passageways clean. Signs of possible blockage include:
  - Gas odour with extreme yellow tipping of flame.
  - Heater does NOT reach the desired temperature.
  - Heater glow is excessively uneven.
  - Heater makes popping noises.
- Spider and insects can nest in burner or orifices. This dangerous condition can damage heater and render it unsafe for use. Clean burner holes by using a heavy-duty pipe cleaner. Compressed air may help clear away smaller particles.
- Carbon deposits may create a fire hazard. Clean reflector and glass tube inside with soapy water if any carbon deposits develop. Always be careful when cleaning the glass tube.

### STORAGE:

#### Between uses:

- Turn the control knob to "OFF" position.
- Turn LPG cylinder to "OFF" position.
- Store heater upright in an area sheltered away from weather conditions (such as rain, sleet, hail, snow).
- If desired, cover heater to protect exterior surfaces and to help prevent dust and debris collecting in air passages.

#### During periods of extended inactivity or when transporting:

- Turn the control knob to "OFF" position.
- Disconnect LP Cylinder and move to a secure, well-ventilated location outdoors. DO NOT store in a location that will exceed 50 degrees C.
- Store heater upright in an area sheltered away from weather conditions (such as rain, sleet, hail, snow).
- If desired, cover heater to protect exterior surfaces and to help prevent dust and debris collecting in air passages.

## Troubleshooting

PROBLEM	PROBABLE CAUSE	SOLUTION
Pilot will not light	Gas valve may be OFF	Turn the gas valve ON
	Fuel Tank empty	Refill LP gas tank
	Orifice blocked	Clean or replace Orifice
	Air in supply system	Purge air from lines
	Loose connection	Check all fittings
Pilot will not stay on	Debris around pilot	Clean dirty area
	Loose connection	Tighten connection .
	Thermocouple bad	Replace Thermocouple
	Gas leak in line	Check connections
	Lack of fuel pressure	Fuel tank is near empty
Burner will not light	Pressure is low	Fuel tank is near empty
	Orifice blocked	Remove, clean and replace
	Control Valve not ON	Turn valve to ON .
	Thermocouple bad	Replace Thermocouple
	Pilot light assembly bent Or not in correct location .	Place pilot light in correct Position and retry

- Any repairs to the patio heater must be carried out by a qualified person.