



PATIO HEATER

WARM

NO LONGER LET THE COLD IN

⚠ WARNING

PLEASE READ THE FOLLOWING SAFETY ADVICE PRIOR TO THE OPERATION OF THIS HEATER

If you smell gas:

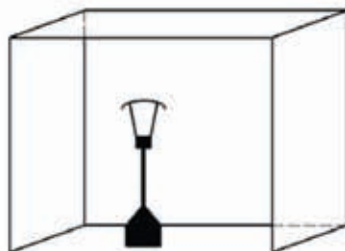
1. Switch off the gas regulator.
2. Extinguish any open flame.
3. If the smell continues immediately call your gas supplier or your fire department.
4. Do not store or use flammable liquids in the vicinity of this heater.
5. Any gas cylinders not connected for use shall not be stored in the vicinity of this heater.

⚠ WARNING

For use outdoors or in areas that have ample ventilation.

An amply ventilated area must have a minimum of 25 % of the surface area open.

The surface area is the sum of the walls surface.



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



**Read all of these instructions before
installation and use.**

- This appliance must be installed and the gas cylinder stored in accordance with LPG storage regulations.
- Do not obstruct the ventilation holes of the cylinder housing
- Do not move the heater when in operation.
- Switch off the gas regulator before moving the heater
- The rubber hose should be inspected and changed on a yearly basis.
- This heater is designed to be used with 11kg or 13kg patio/leisure propane gas cylinders

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SAFETY PRECAUTIONS

Read the instructions before using this appliance. The appliance must be installed in accordance with the instructions.

- Do not use this patio heater indoors, as it may cause personal injury or property damage.
- This outdoor heater is not intended to be installed on recreational vehicles and/or boats. 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.
- Never replace or substitute the regulator with any regulator other than the factory-suggested replacement.
- Do not store or use gasoline or other flammable vapors or liquids in the heater unit.
- The whole gas system, hose, regulator, pilot or burner should be inspected for leaks or damage before use, and at least annually by a qualified service person.
- 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 smell of gas is detected. Turn Cylinder Valve OFF. If leak is at Hose/ Regulator connection: tighten connection and perform another leak test. If bubbles continue appearing should be returned to hose's place of purchase. If leak is at Regulator/Cylinder Valve connection: disconnect, reconnect, and perform another leak check. If you continue to see bubbles after several attempts, cylinder valve is defective and should be returned to cylinder's place of purchase.
- Do not transport heater while it's operating.
- 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 the 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 LP tank should be turned off when the heater is not in use. Check the heater immediately if any of the following occurs:
 1. The heater does not reach temperature.
 2. The burner makes a popping noise during use (a slight noise is normal when the burner is extinguished).
 3. Smell of gas in conjunction with extreme yellow tipping of the burner flames.
- The gas regulator/hose assembly must be located out of pathways where people may trip over it or in areas where the hose will not be subject to accidental damage.
- Any guard or other protective device removed when servicing the heater must be replaced before operating the heater. Adults and children should stay away from high temperature surfaces 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.

- The gas cylinder should only be changed in a ventilated area, away from sources of ignition (candles, cigarettes, and other flame producing appliances)
- Do not obstruct the ventilation holes of the cylinder housing
- Switch off the gas tap after use when using red propane cylinders.
- Switch off the regulator after use when using green propane cylinders.
- In the event of gas leak, the appliance shall not be used or if alight, the gas regulator should be turned off immediately and the appliance should be inspected thoroughly before it is used again.
- Inspect the gas hose before every use. If it shows signs of cracking, splitting or other deterioration it should be replaced with new hose of the same length and of the equivalent quality.
- The use of this appliance in enclosed areas can be dangerous and is **PROHIBITED**.
- For connection of hose and regulator, and connection of regulator and hose, please refer to the photos shown below.

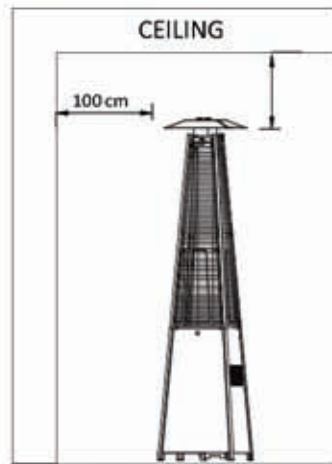


To assist connecting the regulator, carefully place the rubber hose into an insulated cup of boiling hot water. This allows the rubber hose to expand and allow the regulator to be connected easily. After connecting the regulator, tighten the hose clip with a screwdriver.

- This product contains small batteries. Swallowed small batteries can cause **CHOCKING HAZARD**. Seek immediate medical attention if batteries are swallowed or inhaled. Keep children away from the small batteries.

HEATER STAND AND LOCATION

- The heater is primarily for outdoor use only. Always ensure that adequate fresh air ventilation is provided.
- Always maintain proper clearance to non protected combustible materials i.e. top 100 cm and sides 100 cm minimum.



- Heater must be placed on level firm ground.
- Never operate heater in an explosive atmosphere like in areas where gasoline or other flammable liquids or vapors are stored.
- To protect heater from strong wind, anchor the base securely to the ground with screws.

Gas Requirements

- This heater is primarily designed to be used with propane gas.
- Butane gas may also be used with the appropriate regulator however butane freezes at zero degrees so will not be ideal to be used during cold temperatures.
- A dented, rusted or damaged cylinder may be hazardous and should be checked by your gas supplier before being used with this heater.
- Never connect an unregulated cylinder to the heater.

Leak Test

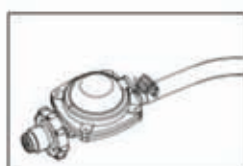
Gas hose connections on the heater are leak tested at the factory prior to shipment. A complete gas leak check must be performed at the installation site due to possible mishandling during the transit process.



Leak testing: Do not smoke while performing this test, and remove all sources of ignition.

A full gas cylinder is required. This test must be done before initial use, annually and whenever any gas Components are replaced or serviced.

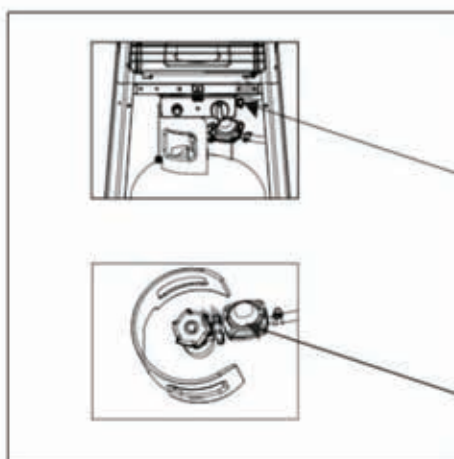
1. Mix a solution of water and washing up liquid, then pour onto the connection between the joints and connections of the regulator, hose, manifolds and valves. See Leak Testing Diagram below for areas to check. Turn all burner controls to the off position. Turn the gas regulator ON.



Hose / Regulator
Connection

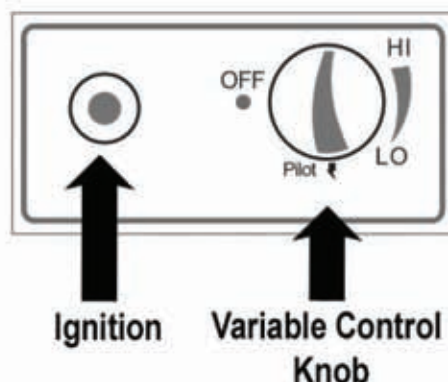


Regulator / Cylinder
Connection



- **If no bubbles are present** - This indicates the connection is leak safe.
 - **If bubbles are present** – Tighten the hose clip further and retest for leaks
 - If bubbles continue to appear – **please contact your gas supplier or heater distributor**
2. If the leak cannot be stopped, immediately shut off the gas supply and disconnect it.
 3. Do not use the patio heater until the leak has been corrected.

OPERATION AND STORAGE



TO TURN THE HEATER ON

WARNING: Please ensure the glass tube has not been damaged before operation

1. Ensure the variable control knob is at the OFF position
2. Connect the gas regulator to a compatible gas cylinder
3. Push and turn the variable control knob to the "Pilot " position and hold for 60 seconds. Whilst still holding the control knob down, press the ignition button. A pilot flame should appear.
4. Once the blue pilot flame stays alight constantly, let go of the variable knob.
5. Turn the variable control knob to the desired temperature position – Lo to Hi

IMPORTANT NOTE

- When lighting the heater for the first time or a new cylinder is connected, the air inside the hose must be purged. This process will take a few minutes as liquefied petroleum gas is heavier than air
- As a result the variable control knob should be pressed down at the pilot position for 3 Minutes instead of the normal 60 second period
- This ensures the gas purges the air in the hose and passes from the cylinder through to the main burner

TO TURN THE HEATER OFF

1. Turn the variable control to the PILOT position
2. Push and turn the variable control knob to the OFF position
3. Turn the regulator connected to the gas cylinder to the OFF position

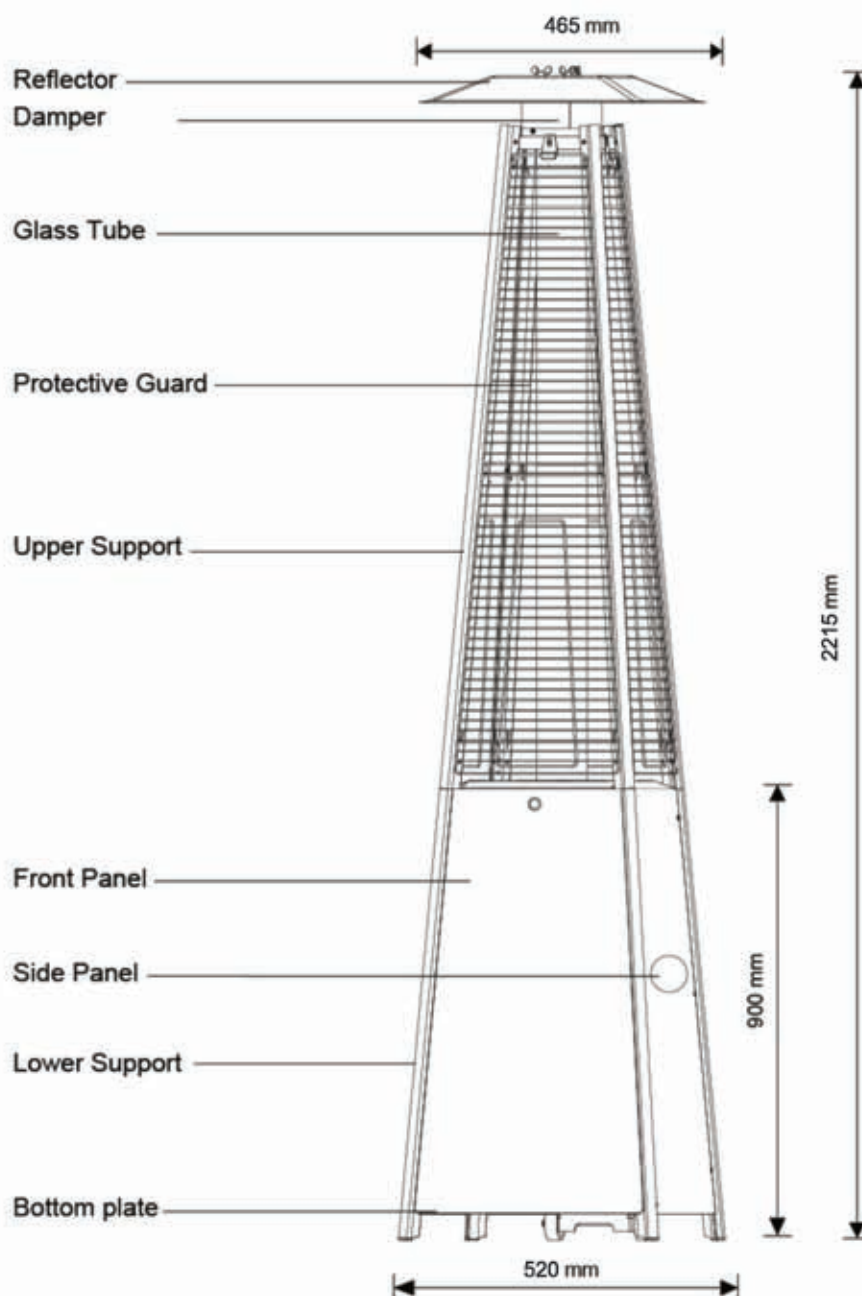
STORAGE

- Always turn the regulator connected to gas cylinder OFF after use.
- Disconnect the regulator from the cylinder if the heater is not in use.
- Never store the gas cylinder indoors or without adequate air ventilation.

CLEANING AND CARE

- Wipe off surfaces with soft, moist cloth. Do not clean the heater with cleaning products that are combustible or corrosive.
- Remove debris and insects from the burner periodically to keep it clean and safe for use.
- Cover the burner unit with the optional protective cover when the heater is not in use.

PARTS AND SPECIFICATION



CONSTRUCTION AND CHARACTERISTICS

- Transportable terrace/garden heater with cylinder housing.
- Constructed with aluminium, powder coated and stainless steel
- Heat is emitted upwards through the glass tube and distributed via the top reflector.

SPECIFICATIONS

- This heater is best used with propane gas
- Max. wattage: 13kw
- Min. wattage: 5kw

Gas Consumption

APPLIANCE CATEGORY:	I ₃ +(28-30/37)		I ₃ B/P(30)	I ₃ B/P(50)	I ₃ B/P(37)
TYPES OF GAS:	Butane	Propane	Butane, propane or their mixtures	Butane, propane or their mixtures	Butane, propane or their mixtures
GAS PRESSURE:	28-30mbar	37 mbar	30 mbar	50mbar	37mbar
OUTLET PRESSURE OF REGULATOR:	30mbar	37 mbar	30 mbar	50mbar	37mbar

Use the correct regulator according to outlet pressure of regulator as showed in the table above.

Injector Information

APPLIANCE CATEGORY:	I ₃ +(28-30/37)		I ₃ B/P(30)	I ₃ B/P(50)	I ₃ B/P(37)
TYPES OF GAS:	Butane	Propane	Butane, propane or their mixtures	Butane, propane or their mixtures	Butane, propane or their mixtures
GAS PRESSURE:	28-30mbar	37 mbar	30 mbar	50mbar	37mbar
TOTAL HEAT INPUT (Hs): (Qn)	13kW (945g/h)				
INJECTOR SIZE:	1.88 mm for main burner 0.18 mm for pilot burner			1.55 mm for main burner 0.18 mm for pilot burner	1.65 mm for main burner 0.18 mm for pilot burner
The marking, for example, 1.88 on the injector, indicates that the size of injector is 1.88mm					

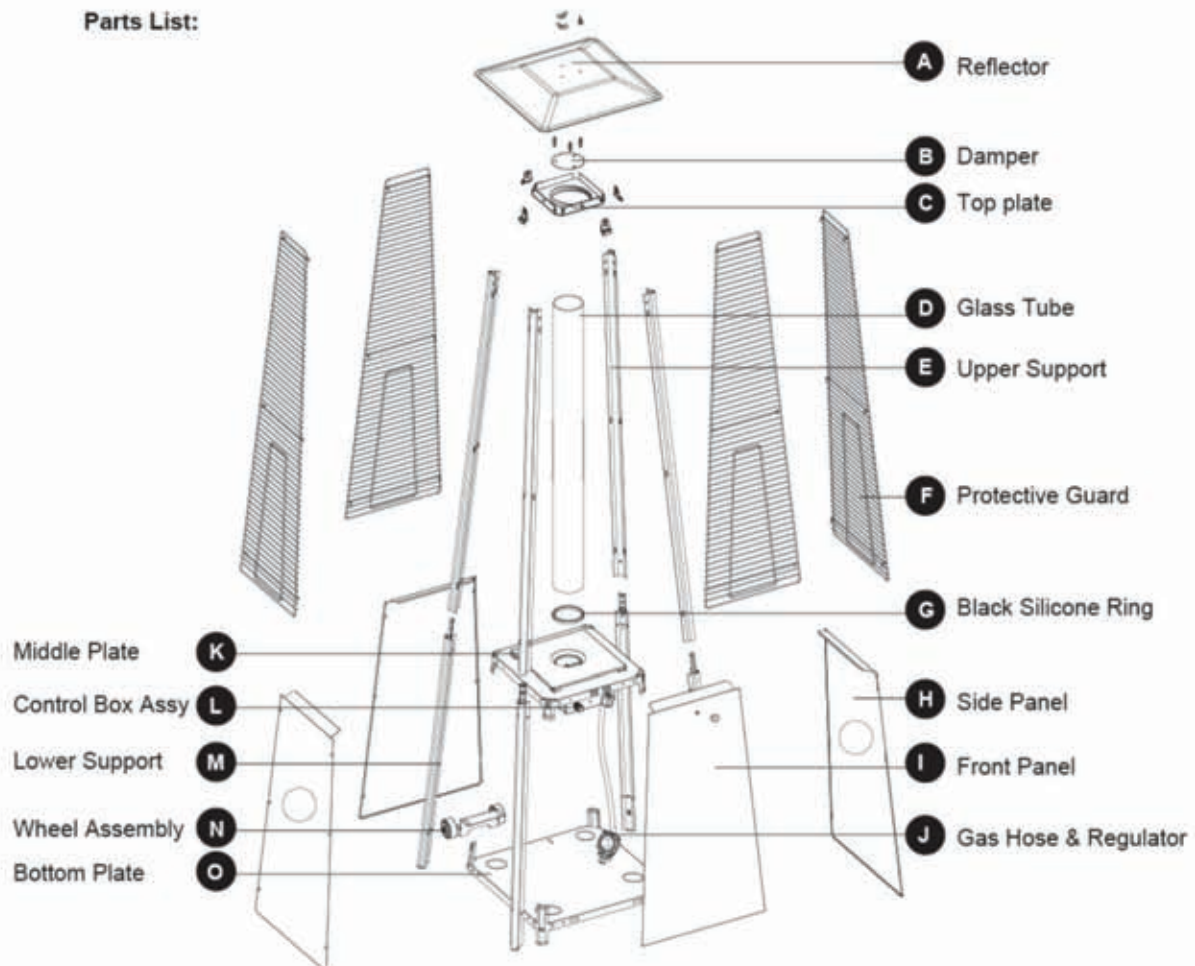
- The hose and regulator assembly must conform to adequate standards.
- Regulator outlet pressure should meet the corresponding appliance category in the Specification section above. The appliance requires approved hose with a minimum length of 1.5 m.

ASSEMBLY PARTS

Tools needed:

- Philips screwdriver w/ medium blade
- Spray bottle of soap solution for leakage test














Parts List:



PART	DESCRIPTION	QUANTITY
A	Reflector	1
B	Damper	1
C	Top plate	1
D	Glass Tube	1
E	Upper Support	4
F	Protective Guard	4
G	Black Silicone Ring	1
H	Side Panel	3
I	Front Panel	1
J	Gas Hose & Regulator	1
K	Middle Plate	1

PART	DESCRIPTION	QUANTITY
L	Control Box Assy	1
M	Lower Support	4
N	Wheel Assembly	1
O	Bottom Plate	1



Hardware Contents

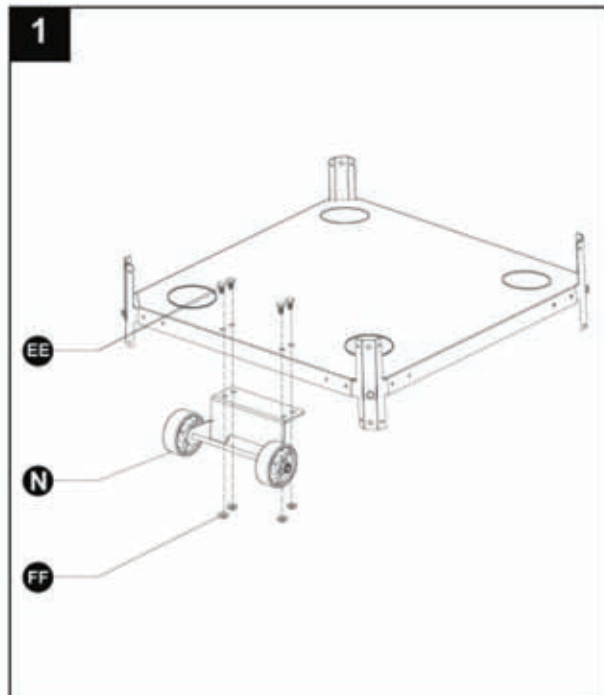
AA		BB		CC		DD		EE		FF	
	Wing nut Qty. 3		Small stud Qty. 3		Stud Qty. 3		3/16" Screw Qty. 68		Bolt M8 X 12 Qty. 4		M8 nut Qty. 4
GG		HH		JJ		KK		LL			
	Fixing Bracket Qty. 4		Philips screwdriver Qty. 1		Knob Qty. 1		Screw M4 X 10 Qty. 1		Chain Qty. 1		
MM		NN									
	Battery Qty. 1		Screw cap Qty. 3								

Assembly Procedure

1. Assemble the wheel assembly (N) to the bottom plate (O). Fix the wheel assembly (N) to the bottom plate (O) using 4pcs bolt M8×12 (EE) and 4pcs flange nut M8 (FF).

Hardware Used

EE	Bolt M8 X 12		x 4
FF	M8 nut		x 4





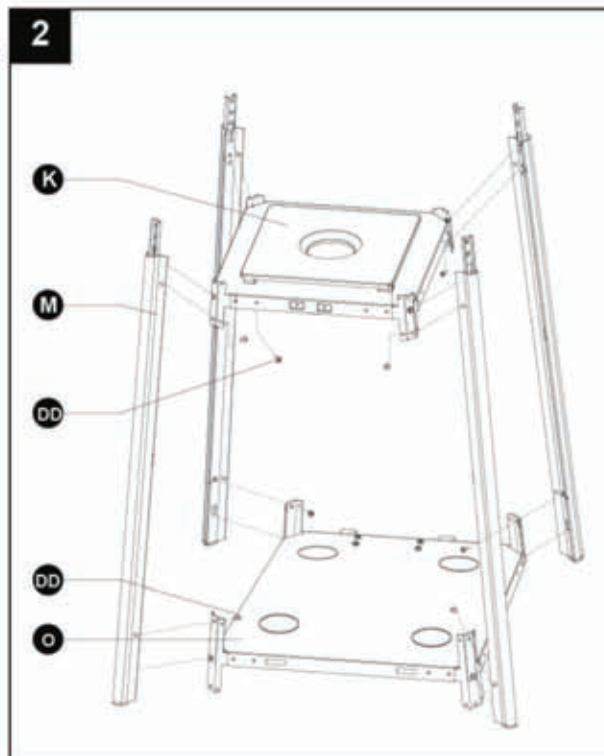
2. Insert the pins of the bottom plate (O) to the holes of lower support (M), press to secure the pins.

Using 12pcs screw 3/16" (DD) to secure the lower support (M) and bottom plate (O).

Using 8pcs screw 3/16" (DD) to secure the lower support (M) and middle plate (K).



Hardware Used

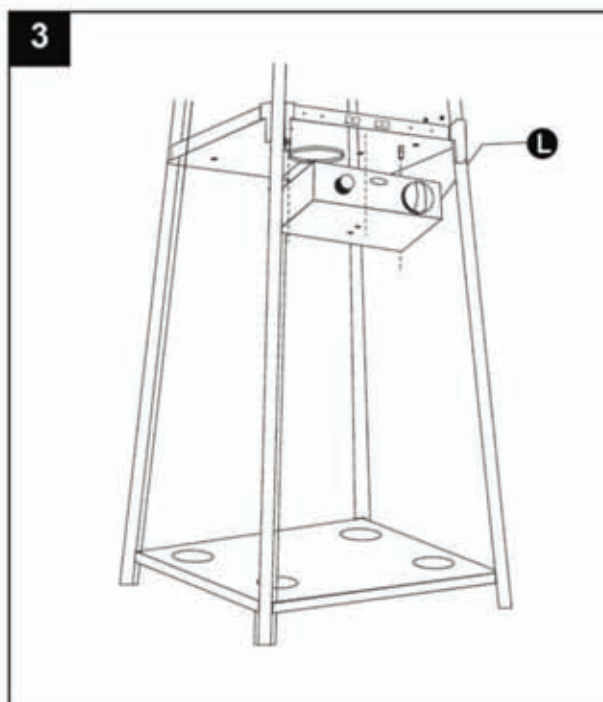
DD	3/16" Screw		x 20
HH	Philips screwdriver		x 1



3. Assemble control box assy (L).
Fix the Control Box Assy (L) to the Middle Plate (K), using 4pcs screw 3/16" (DD)'.
Middle Plate (K)



Hardware Used

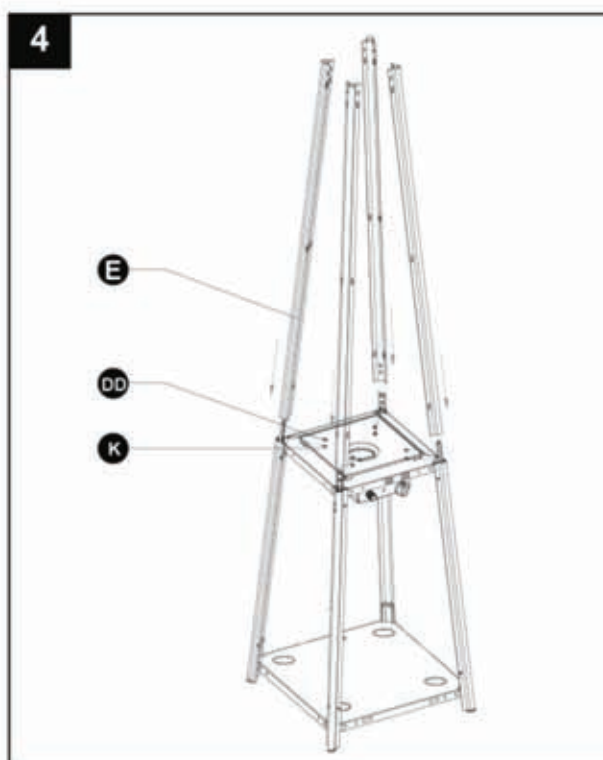
- DD 3/16" Screw  x 4
- Philips screwdriver  x 1



4. Assemble the upper support (E).
Insert the 4pcs upper support (E) to the middle plate (K). Secure them with 16pcs screw 3/16" (DD).
Upper support (E)



Hardware Used

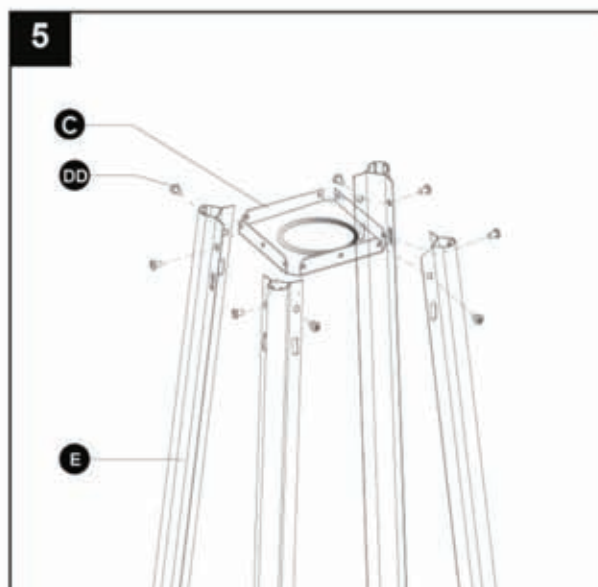
- DD 3/16" Screw  x 16
- HH Philips screwdriver  x 1



5. Assemble the top plate (C) to the upper support (E).
Secure the top plate (C) to the upper support (E) using 8pcs screw 3/16" (DD).

Hardware Used

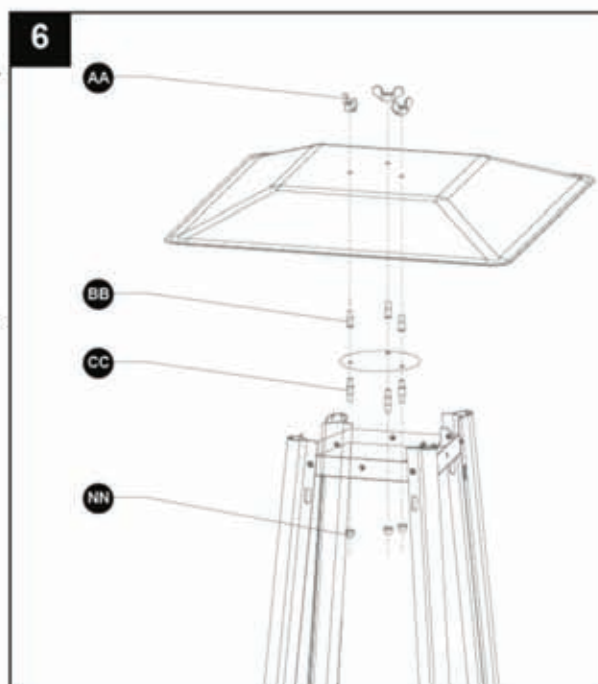
DD	3/16" Screw		x 8
HH	Philips screwdriver		x 1



6. Assemble the damper (B) onto the top plate (C), reflector (A) onto the damper (B). Screw the 3pcs stud (CC) on the top plate (C), put 3pcs screw cap (NN) onto the bottom of stud (CC), then put the damper (B) onto the stud (CC), secure them with 3pcs stud (CC) and 3pcs screw cap (NN). Screw the 3pcs small stud (BB) on the stud (CC), then put the reflector (A) onto the small stud (BB), secure them with 3pcs small stud (BB) and 3pcs wing nut (AA).

Hardware Used

AA	Wing nut		x 3
BB	Small Stud		x 3
CC	Stud		x 3
NN	Screw cap		x 3






7. Carefully install the glass tube (D) by lifting up and inserting through the center hole in the top plate (C). Ensure the black silicone ring (G) is attached to the lower edge of the glass tube (D) as illustrated. Slide the glass tube (D) through the hole of the lower plate cover and onto the middle plate (K). Check and ensure that the glass tube (D) is positioned properly and is completely covering the center hole of the middle plate(K).

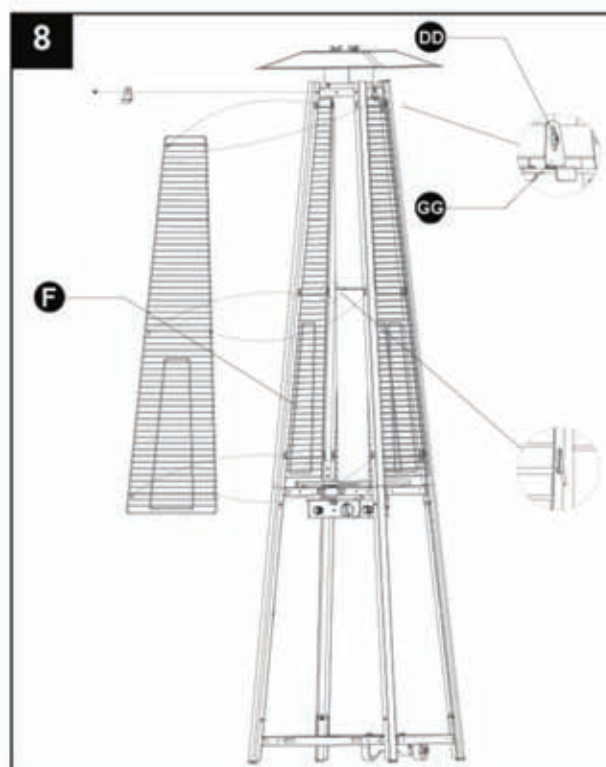
WARNING! The black silicone ring must be in place prior to operating the heater.



8. Assembly the protective guard (F). Hang the hooks of the protective guard (F) onto the holes in supports. Secure the protective guards (F) with fixing brackets (GG) with 4pcs 3/16" screws (DD).



Hardware Used

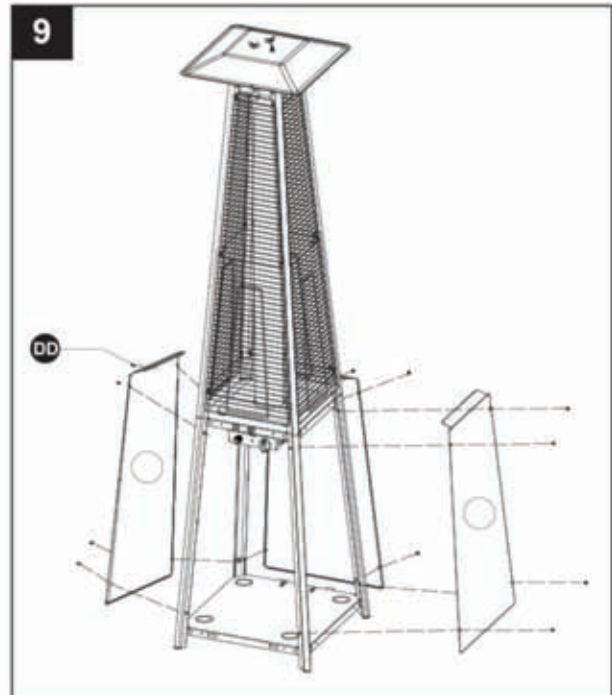
DD	3/16" Screw		x 4
HH	Philips screwdriver		x 1
GG	Fixing Bracket		x 4



9. Attach the three side panels (H) to the heater using 12pcs screw 3/16" (DD)
 Note: Do not cover the front side where the control knob is.





Hardware Used

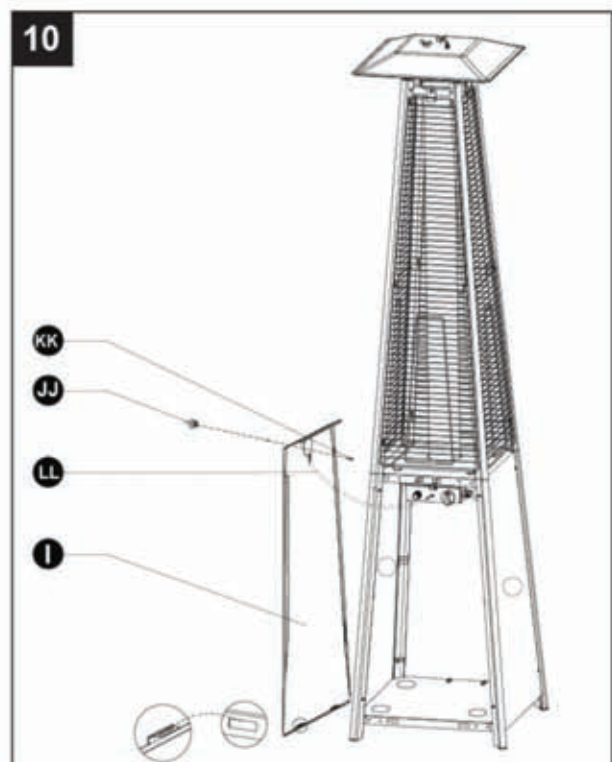
- DD** 3/16" Screw  x 12
- HH** Philips screwdriver  x 1



10. Install the knob to M4×10 screw (KK).
 Hang the chain (LL) to the hole on the control box assy (L) and put the pothook of front panel (I) to the holes of bottom plate (O).

Hardware Used

- JJ** Knob  x 1
- KK** Screw M4 X 10  x 1
- LL** Chain  x 1
- HH** Philips screwdriver  x 1



LEAK TEST

Please ensure you follow the procedure on page 8 before operating the heater.

TROUBLESHOOTING

Problem	Probable Cause	Suggested Solution
<u>Pilot will not light</u>	Gas regulator may be OFF	Turn the regulator ON
	Gas cylinder empty	Replace with full cylinder
	Opening blocked	Clean or replace opening
	Air in supply system	Purge air from lines
<u>Pilot will not stay on</u>	Loose connections	Check all fittings
	Debris around pilot	Clean dirty area
	Loose connections	Tighten connections
	Thermocouple faulty	Replace thermocouple
	Anti tilt switch loose/faulty	Reconnect/replace anti tilt switch
	Gas leak in line	Check connections
<u>Burner will not light</u>	Lack of fuel pressure	Tank near empty. Refill LPG tank.
	Pressure is low	Cylinder is almost empty. Replace with full cylinder
	Opening blocked	Remove and clean
	Control not ON	Turn valve to ON
	Thermocouple faulty	Replace thermocouple
	Pilot light assembly bent	Place pilot properly
	Not in correct location	Position properly and retry

If you have any other issues, please contact your supplier or distributor. Please do not attempt to modify the heater in any way or form.