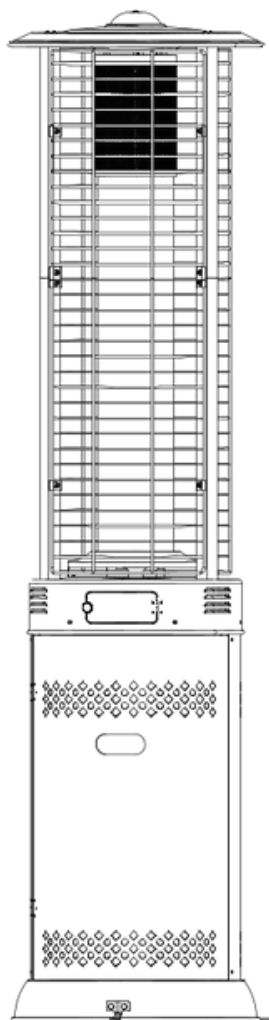


HEAT
outdoors



Santini Goliath Flame Heater

Assembly and Operation Instructions

901555, 90155B

Unit 9, Stort Valley Industrial Estate
Stansted Road, Bishop's Stortford
Hertfordshire, United Kingdom
CM23 2TU

Available at
www.heat-outdoors.co.uk
01279 466500
info@heat-outdoors.co.uk

! WARNING

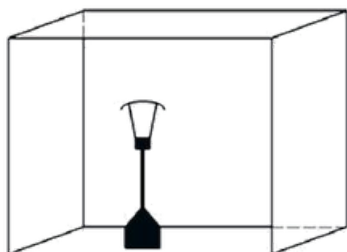
PLEASE READ THE FOLLOWING SAFETY ADVICE PRIOR TO THE OPERATION OF THIS HEATER

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

SAFETY PRECAUTIONS

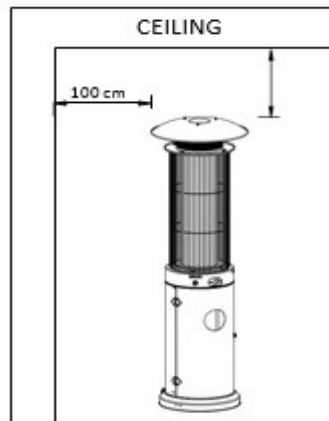
Read the instructions before using this appliance. The appliance must be installed in accordance with the instructions.

- 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 vapours 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.

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 100cm and sides 100cm



- The heater must be placed on level firm ground.
- Never operate the heater in an explosive atmosphere like in areas where gasoline or other flammable liquids or vapours are stored.
- To protect the heater from strong winds, 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 colder 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.

- 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.

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**

- If the leak cannot be stopped, immediately shut off the gas supply and disconnect it.
- Do not use the patio heater until the leak has been corrected.

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.

CONSTRUCTION AND CHARACTERISTICS

Portable terrace and garden heater with cylinder-style housing.

Made from aluminium with a powder-coated finish and stainless steel components. Heat radiates upward through the glass tube and is reflected outward by the top reflector.

SPECIFICATIONS


- This heater is best used with propane gas
- Max. wattage: 13.5kW

Gas Consumption

APPLIANCE CATEGORY:	I ₃ +(28-30/37)		I _{3B/P} (30)	I _{3B/P} (50)	I _{3B/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

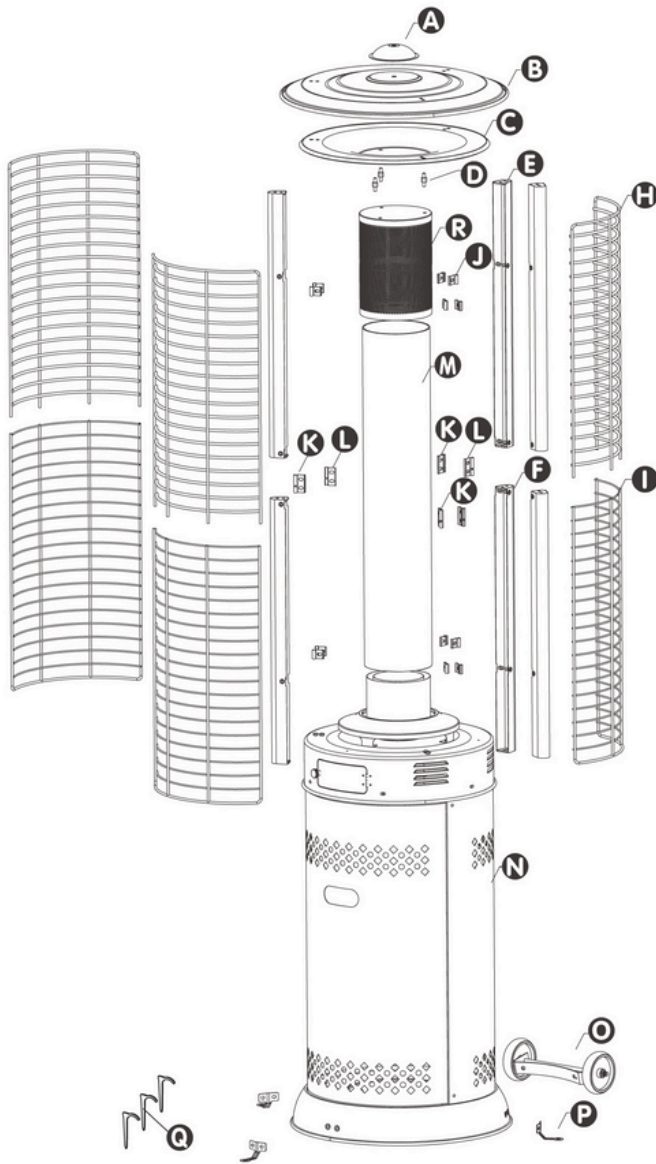
Use the correct regulator according to outlet pressure of regulator as shown in the table above

Injector Information

Model NO:	KLD7003SA , KLD7003SSA				 2575DO39032 2575-25
APPLIANCE CATEGORY:	I ₃ +(28-30/37)		I _{3B/P} (30)	I _{3B/P} (37)	I _{3B/P} (50)
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	37mbar	50mbar
TOTAL HEAT INPUT (Hs):(Qn)	13.0kW (946g/h)				
INJECTOR SIZE:	1.92mm	1.92mm	1.82mm	1.70mm	

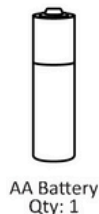
- The hose and regulator assembly must conform to adequate standards.
- Regulator outlet pressure should meet the corresponding appliance category in the specification above. the appliance requires approved hose with a minimum length of 0.4m.

PACKAGE CONTENTS



PART	DESCRIPTION	QTY
A	Reflector Cap	1
B	Reflector	1
C	Upper Plate	1
D	Stud	3
E	Upper Rod	3
F	Lower Rod (preassembled w/ 2 screws)	3
H	Upper Protection Guard	3
I	Lower Protection Guard	3
J	Fix Plate	12
K	Left Fix Plate	3
L	Right Fix Plate	3
M	Glass Tube	1
N	Tank Assembly	1
O	Wheel Assembly	1
P	Anchoring Arm	3
Q	Anchor Pin	3
R	Emitter Screen	1

ALSO REQUIRED (NOT INCLUDED)











AA Battery
Qty: 1

NOTE: This heater's electronic ignition requires 1 AA battery. Install the battery by unscrewing the RED IGNITER BUTTON. Battery is NOT included.



HARDWARE CONTENTS

AA  M8x16 Bolt Qty: 2	BB  M8 Nut Qty: 2	CC  M6x12 Bolt Qty: 6	DD  M6x12 Screw Qty: 6
EE  M5x10 Screw Qty: 24	FF  M6x35 Screw Qty: 1	GG  M6 Nut Qty: 4	HH  Wrench Qty: 1

PREPERATION

Before beginning assembly of this appliance, make sure all parts are present. Compare all parts with package contents list and hardware contents as listed on page 5 of this manual. If any part is missing or damaged, do not attempt to assemble this product. Contact customer service for replacement parts.
NOTE: It is best to use TWO PEOPLE to assemble this patio heater.

ESTIMATED ASSEMBLY TIME: 60 minutes

TOOLS REQUIRED FOR ASSEMBLY (NOT included):

- Phillips screwdriver w/medium blade
- AA Battery (for ignition)

Align the holes in Wheel Assembly **O** with the corresponding holes in the Tank Assembly **N** base. Insert 2 M8x16 Bolts **AA** through each hole. Secure with 2 M8 Nuts **BB** and fully tighten, ensuring the Wheel Assembly **O** is parallel to the base.

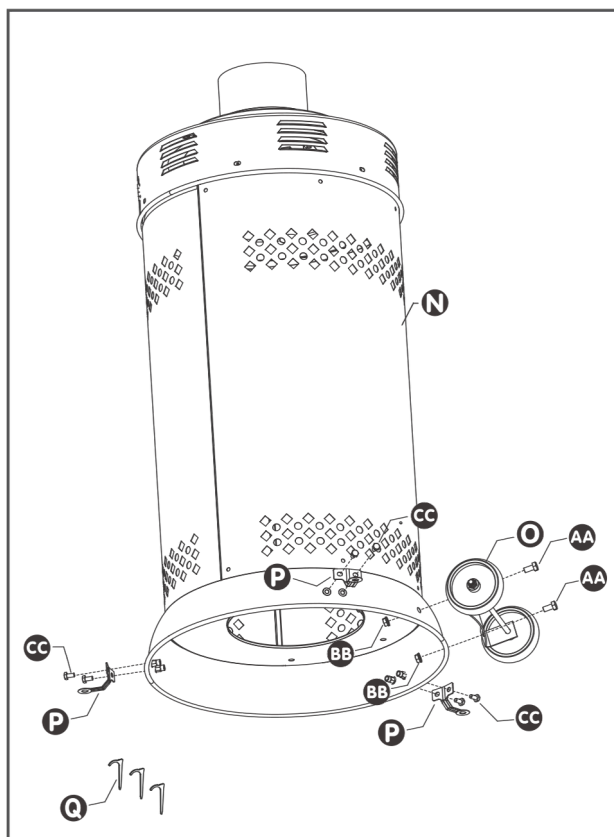
Attach the 3 Anchoring Arms **P** to the base of the Tank Assembly **N** as shown in the picture, fix in place using 2 M6x12 Bolts **CC** for each Anchoring Arm **P**.

Once the heater assembly is complete, secure the unit to the ground by inserting the Anchoring Pin **Q** through the hole in each Anchoring Arm **P** and into the ground.

Hardware Used: **AA** M8x16 Bolts x2

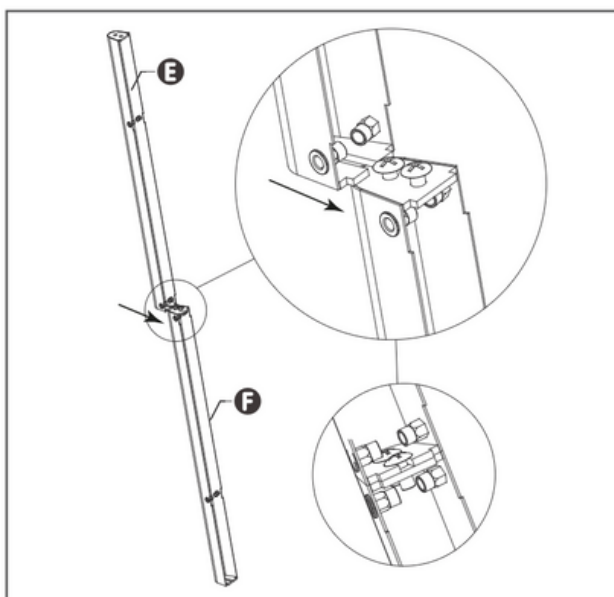
BB M8 Nuts x2

CC M6x12 Bolts x6

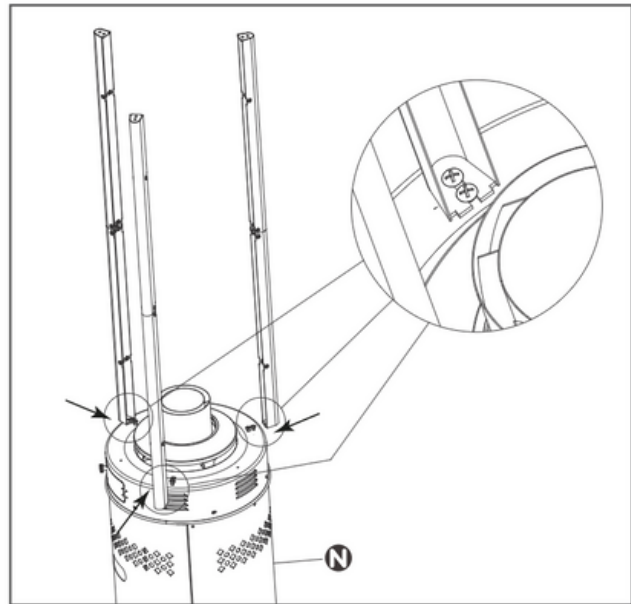


Attach the bottom of the Upper Rod **E** to the top of the Lower Rod **F** using the 2 preassembled M6x12 screws. Ensure that the bottom hole of the Upper Rod slides over the preassembled screws, then fully tighten the bolts.

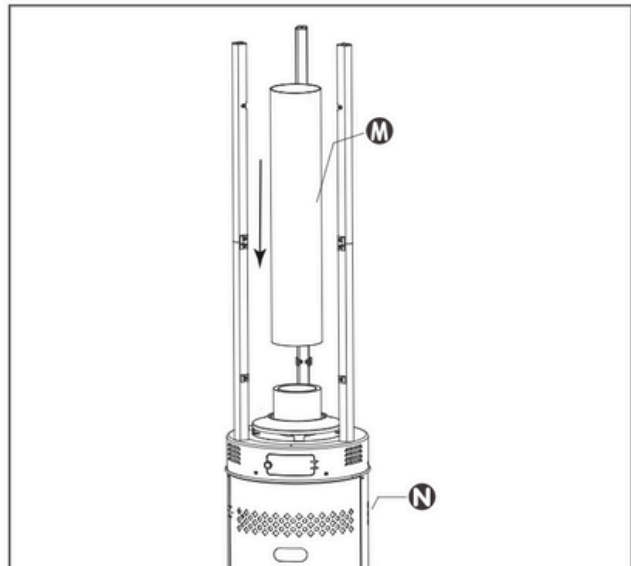
Repeat this process for the other two sets of Upper and Lower Rods **E** **F**



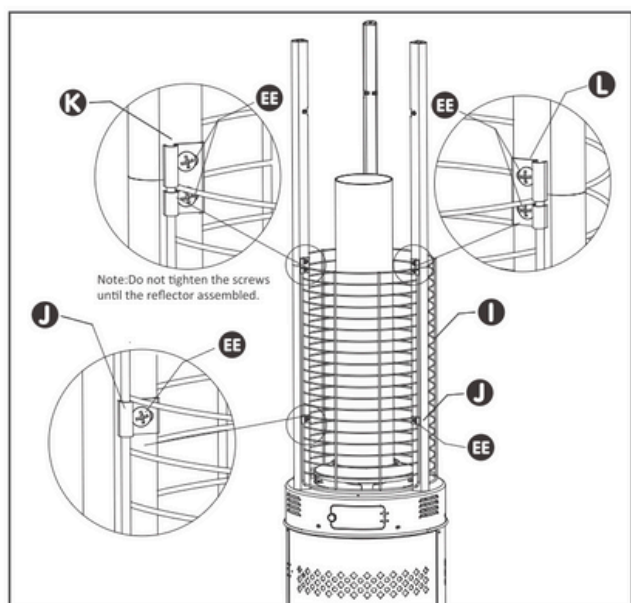
Secure the three rod assemblies 3 from the previous step to the top of the Tank Assembly **N**. Ensure that the bottom of each rod assembly slides over the preassembled M6x12 screws, which are installed on the top of the Tank Assembly **N**, then fully tighten the screws.



Carefully place the Glass Tube **M** onto the Tank Assembly **N**.



Attach 1 Lower Protection Guard **I** to the rod assemblies from Step 2. Position the Left Fix Plate **K** at the upper left end of the Lower Protection Guard **I** and the Right Fix Plate **L** at the upper right end. Secure them using 2 M5x10 Screws **EE** on each side, but do not fully tighten the screws until the reflector is assembled. Next, attach 1 Small Fix Plate **J** to each lateral side in the lower section using 1 M5x10 Screw **EE** on each fix plate. Repeat this process for the other 2 Lower Protection Guards **I**.



NOTE: Do not fully tighten the screws until the Reflector **B** is assembled.
Hardware Used: **EE** M5x10 Screw x18

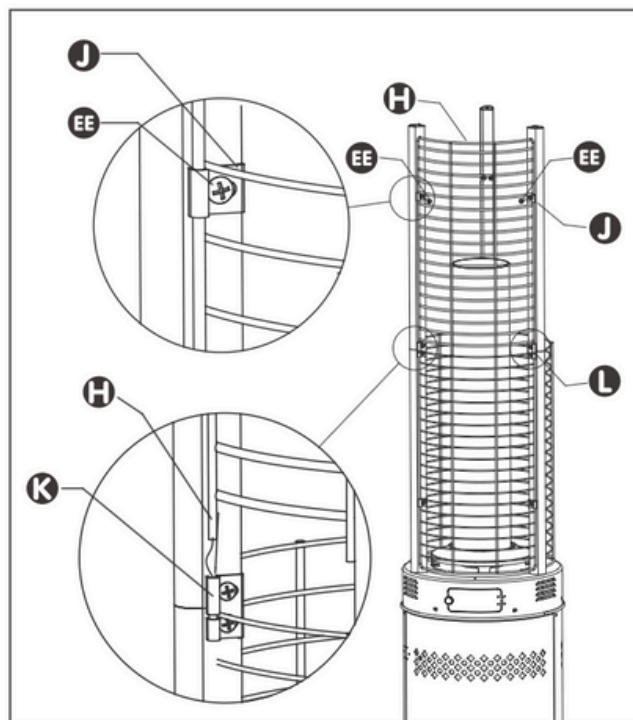
Attach 1 Upper Protection Guard **H** to the rod assemblies, ensuring that the exposed wire end at the bottom of the guard inserts into the hole on the Left Fix Plate **K** and Right Fix Plate **L**, which were installed in the previous step.

Place one Small Fix Plate **J** on each side of the upper part of the Upper Protection Guard **H** and secure each with 1 M5x10 Screw **EE**.

Repeat these steps using the other 2 Upper Protection Guards **H**.

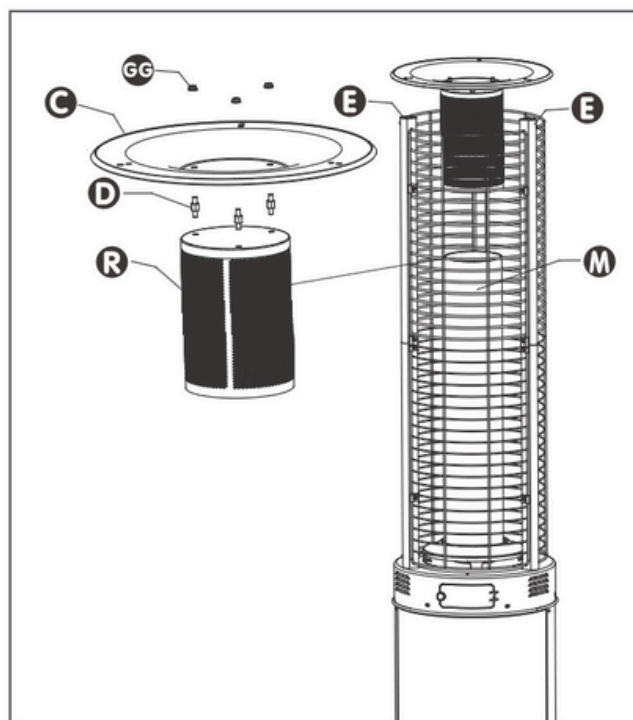
NOTE: Do not tighten the screws until the Reflector **B** has been completely assembled.

Hardware Used: **EE** M5x10 Screw x6



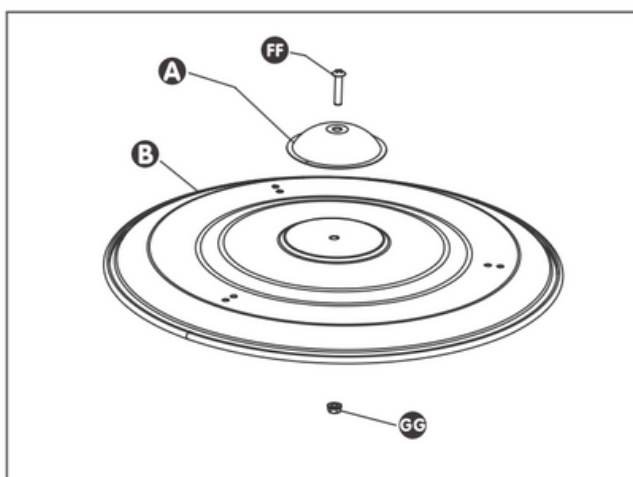
Attach the 3 Studs **D** onto the top of the Emitter Screen **B**, then place the Upper Plate Cover the tops of the Studs **D** and affix using 3 M6 Nuts **GG** onto the ends of the Studs. Place the Emitter Screen **R** assembly onto the Glass Tube **M**. Align the holes with corresponding holes on the tops of the Upper Rods **E**.

Hardware Used: **GG** M6 Nuts x3



Attach the Reflector Cap **A** onto the Reflector **B** using 1 M6x35 Screw **FF** and 1 M6 Nut.

Hardware Used: **FF** M6x35 Screw x1
GG M6 Nut x1



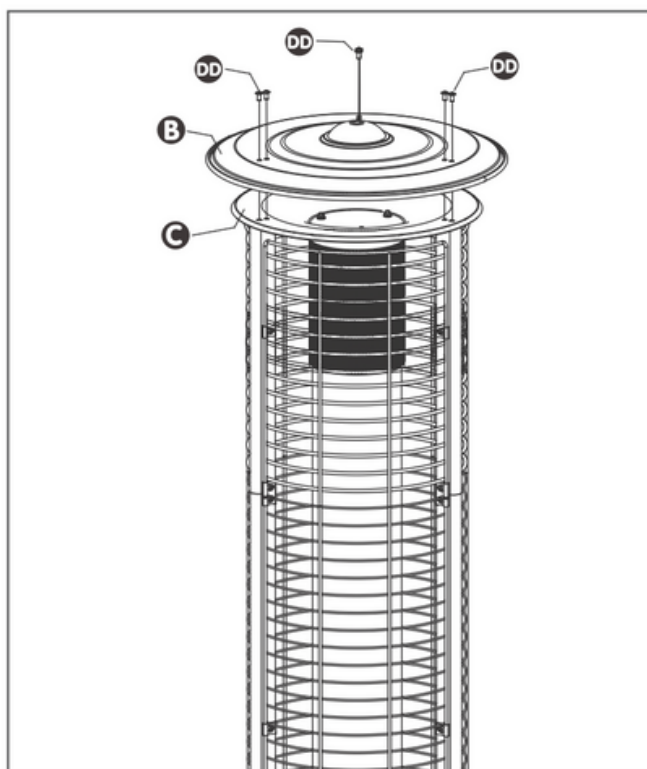
Attach the reflector assembly from the previous step to the Upper Plate **C** by aligning the holes in the Reflector **B** with the corresponding holes on the top of the Upper Plate **C**.

Insert 6 M6x12 Screws **DD** into the holes and loosely tighten.

DO NOT TIGHTEN SCREWS until you have successfully affixed all 6 screws.

Once all have been properly aligned and inserted, you may tighten.

Hardware Used: **DD** M6x12 Screws x6



OPERATION

WARNING - Please ensure you follow the leak test procedure before operating the heater.

To Turn The Heater On

Check and ensure that an AA battery (not included) is inside the ignition by unscrewing the red button.

- Turn the gas regulator to the ON position
- Press and turn the variable control knob to the PILOT position
- Press down the variable control knob at this position for 60 seconds.

NOTE: Please hold for 120 seconds when lighting for the first time

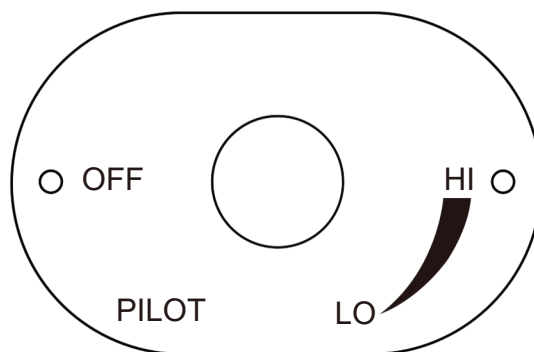
- Whilst still holding down the control knob, press the ignition button until the pilot flame lights
- Release the variable control knob after the pilot flame lights
- Turn the variable control knob to the HI (max) position and leave in position for 5 minutes
- Turn the variable control knob to the desired temperature position

NOTE: A 5 minute complete shut off period is necessary before re-lighting

IMPORTANT WARNING - DO NOT USE THE HEATER WHILST RAINING

To Turn The Heater Off

- Turn the variable control knob to the OFF position
- Turn off the regulator on the gas supply cylinder to shut down the heater completely



HEAT outdoors

Unit 9, Stort Valley Industrial Estate
Stansted Road, Bishop's Stortford
Hertfordshire, United Kingdom
CM23 2TU

Available at

www.heat-outdoors.co.uk

01279 466500

info@heat-outdoors.co.uk