



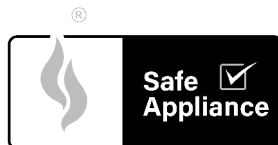
PATIO HEATER GAS OUTDOOR LOG HEATER

GHP45



Your world is better with Alva

- THIS IS A LOW PRESSURE APPLIANCE TO BE USED ONLY WITH A 2.8kPa SANS 1237 APPROVED REGULATOR AND SANS 1156 HOSE (REGULATOR AND HOSE FITTED AND SUPPLIED)
- OR YOUR OWN SAFETY, PLEASE READ THIS MANUAL CAREFULLY AND ALWAYS OPERATE THIS PRODUCT ACCORDING TO THE INSTRUCTIONS
- IT IS ILLEGAL AND DANGEROUS TO CHANGE OR MODIFY ANY PART OF THIS APPLIANCE



APPROVED FOR USE IN
SOUTH AFRICA

Manufactured for
and distributed by:



A division of Stingray Accessory Manufacturers (Pty) Ltd | P.O. Box 30014, Tokai, 7966 | +27 21 442 1540
info@stingray.co.za | www.alva.co.za | TOLL-FREE NUMBER: 086 100 ALVA (2582)

f /AlvaGas

@ /alvagas

IMPORTANT SAFETY INFORMATION

As with all appliances, misuse of this appliance or failure to fully follow these instructions may cause fire, injury or death. Please read all the instructions before using your gas patio heater.

- The operator must understand all safety requirements as detailed in this manual before using the unit.
- THIS UNIT MUST BE THOROUGHLY CHECKED BEFORE USE.
- Ensure that all the gas fittings are correctly and firmly fitted before every use.
- Remove all packaging materials before assembling.
- For OUTDOOR USE ONLY. Not for commercial use.
- For use with LP Gas only.
- DO NOT use within 1m of any flammable surfaces.
- DO NOT use this patio heater if you do not clearly understand the instructions and/or how to operate the controls.
- Phone the customer care line at 086 100 ALVA (2582) or email info@stingray.co.za for assistance.
- DO NOT store flammable materials or another gas cylinder near the patio heater.
- DO NOT leave the patio heater unattended while in use.
- Ensure that the gas supply is turned OFF at the gas cylinder after use and while the patio heater is unattended.
- DO NOT move the patio heater while in use.
- DO NOT place objects on or against the patio heater.
- DO NOT use a naked flame to test for leaks. Follow the Leak Testing procedure outlined under "LEAK TEST" in this manual.
- Leak test the patio heater every year or if you ever smell gas.
- NEVER use this patio heater with a cylinder other than the size recommended.
- DO NOT unscrew the regulator while the patio heater is on or if the gas cylinder valve is open.
- DO NOT use a patio heater you suspect is faulty.
- For Safety reasons, only a qualified technician may execute maintenance and repairs.
- The warranty for the patio heater will be rendered void if the appliance is serviced or repaired by anyone other than an Alva appointed technician.
- The patio heater should be inspected once a year by a qualified technician, to make sure the unit is safe and fault free.
- The operator is responsible for the safety of all third parties while the patio heater is in use.



*Please read the instructions carefully before use.
Retain this manual for future reference.*

- DO NOT use in windy or gusty conditions.
- Accessible parts may get very hot during operation. Keep young children at a safe distance.
- Clean with warm soapy water only after the patio heater has cooled down.
- Keep the burner unit clear of spider webs or other obstructions.
- Close the gas cylinder valve off after use.
- Any modification of this patio heater is dangerous.
- If you smell gas, close the cylinder valve immediately and check for leaks.

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KEY



Important information.



Cautions and warnings.



Danger.



Contact an approved ALVA technician.



Do It Yourself.

WARRANTY

PLEASE RETAIN YOUR PROOF OF PURCHASE FOR WARRANTY CLAIMS.

ALVA warrants this appliance to be free of defects in material and quality for a period of 12 months from date of original purchase. This warranty covers the intended use of this appliance – within a domestic setting and not for commercial or industrial purposes. Any damage caused by wilful abuse, tampering, modification or unauthorized repair will not be warranted.

Please retain all packaging material, as items returned without original packaging material may be subject to a withholding fee. Where this appliance is found to be defective, damaged, broken, or does not work correctly for the intended purpose, you must return the appliance to the retailer from where it was purchased. The warranty will only be effected with valid proof of purchase. Failure to provide the proof of purchase will most likely result in the repair or service required being chargeable.

If you have any questions while setting up or using this patio heater, please visit www.alva.co.za or call 086 100 2582 (ALVA) or e-mail info@stingray.co.za.

GENERAL INFORMATION

Before using this patio heater, please read through this manual and make sure you understand everything. If you are not sure, call 086 100 ALVA (2582) or visit www.alva.co.za for help.

This patio heater is a safe and efficient form of heating when used according to these instructions.

Reading and understanding this manual should give you a good indication of what to expect from your Alva patio heater.

If this product is not what you want or need, please help Alva and the environment by not damaging or destroying any part of the packaging, the manual or the Styrofoam inserts.

Always keep your proof of purchase. Keep these instructions for future use. If you lose this copy, you can obtain a new copy from your dealer or online at www.alva.co.za.



Thank you for your purchase of this patio heater. Please read these instructions carefully before use and keep them in a safe place, for future reference.



Not using appliances according to the instructions is extremely dangerous and can lead to property damage, injury or death.



For outdoor use only.

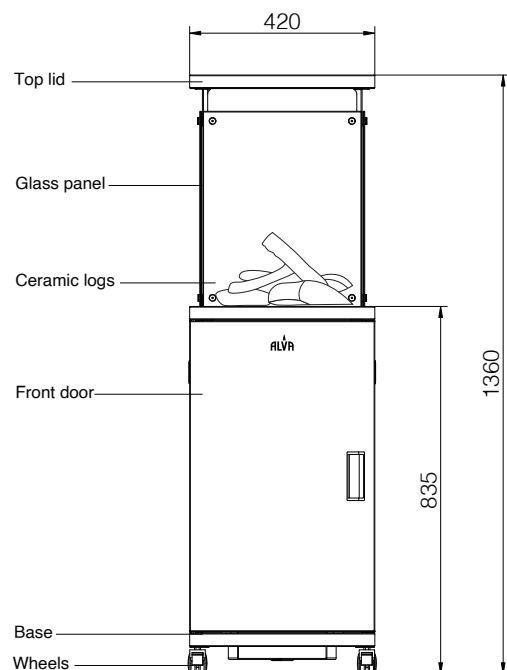
For use with LPG only.

DO NOT use within 1m of any flammable surfaces.

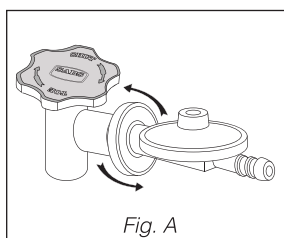
Always turn OFF the gas supply at the cylinder after use.

DO NOT store flammable materials or another cylinder near the heater.

PARTS DIAGRAM



METHOD OF ASSEMBLY



9kg ALVA cylinder recommended with a 5/8" BSP thread; horizontal exit valve. The Bullnose Regulator tightens to the left hand side (anticlockwise) (Fig. A).

If you have bought a new gas cylinder, the cylinder needs to be purged (cleared out), before its first use. If it is not purged of air,

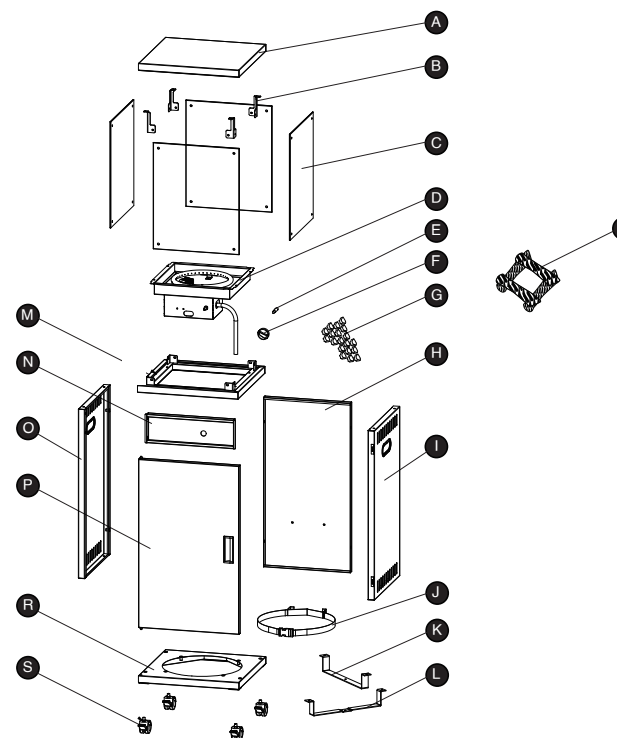
the patio heater will not work properly. This should happen at the gas filling station when you fill up the cylinder. Always check this with your gas supplier.

WARNING:
This patio heater operates directly on an ALVA 9kg industrial cylinder with a 5/8" HORIZONTAL exit valve. It is NOT to be used on a domestic cylinder with a 3/8" VERTICAL exit valve.

PATIO HEATER SETUP

1. Before removing this patio heater from the packaging, read this manual in full and make sure that it is what you want/ need.
2. Remove the patio heater from the packaging.

EXPLODED VIEW

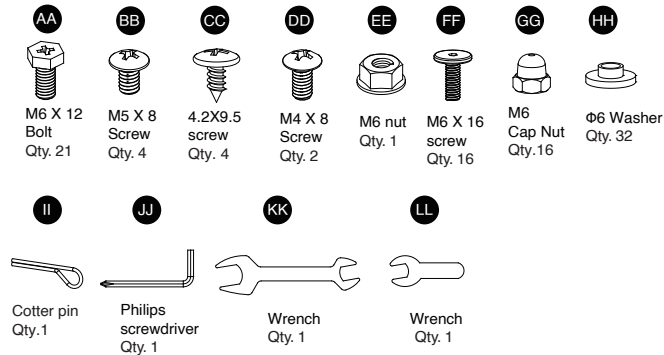


Part	Description	Qty
A	Top lid	1
B	Top lid support	4
C	Glass panel	4
D	Burner	1
E	Valve pole	1
F	Control knob	1
G	Lava rocks	1
H	Back panel	1
I	Right side panel	1
J	Gas cylinder fixed bracket	1
K	Gas cylinder bracket A	1
L	Gas cylinder bracket B	1
M	Gas cylinder housing upper cover	1
N	Control panel	1
O	Left side panel	1
P	Front door	1
R	Base	1
S	Wheels	4
Y	Ceramic logs	4

TOOLS NEEDED

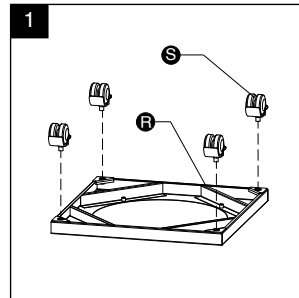
- Phillips screwdriver with medium blade.
- Spray bottle of soap solution for leakage test.

ASSEMBLY PARTS



ASSEMBLY INSTRUCTIONS

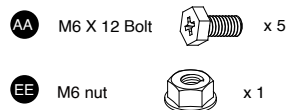
1. Install the four wheels to the base.



2-1. Install the gas cylinder brackets A and B to the base with four M6X12 hexagon screws.

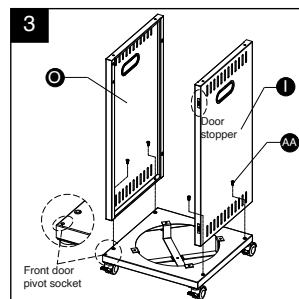
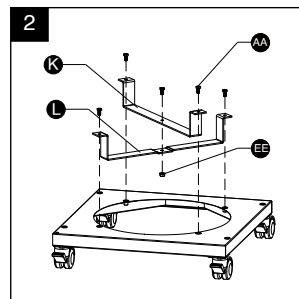
2-2. Use one M6X12 hexagon screw and one M6 hexagon flange nut between the two gas cylinder brackets, and then tighten the screws.

Hardware Used



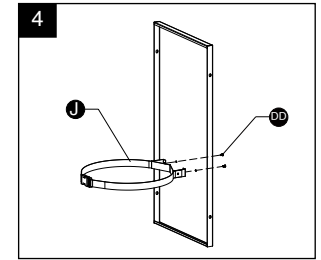
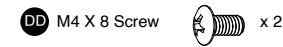
3. Install the left side plate and the right side plate to the chassis with four M6X12 hexagon screws. Note that the side plate without door magnet is the left side plate, which is installed to the side with front door hole, and the right side plate with door magnet is installed to the other side).

Hardware Used



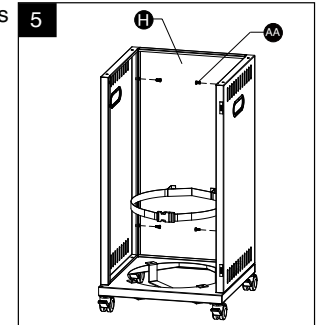
4. Install the gas cylinder bracket on the inner side of the back plate with two M4 X8 screws.

Hardware Used



5. Install the back plate on the left and right side plates with four M6X12 hexagon screws (note that the gas cylinder bracket should be located on the lower side).

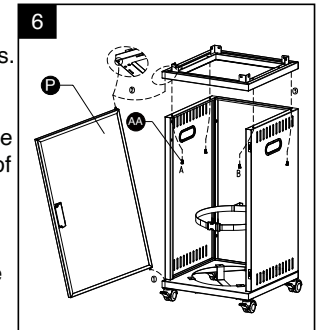
Hardware Used



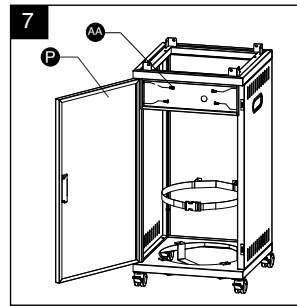
6-1. Insert the rotating shaft in the lower left corner of the front door into the rotating shaft hole of the chassis.
 6-2. Straighten the front door, then place the upper plate of the box on the left and right side plates of the box, and insert the rotating shaft at the upper left of the front door into the rotating shaft hole at the lower left of the upper plate of the box.

6-3. Adjust the position of the upper plate of the box body and the left and right side plates, so that the mounting screw holes at the bottom of the upper plate of the box body are aligned with the mounting holes of the left and right side plates, and tighten the upper plate of the box body from the inside with four M6X12 hexagon screws.

Hardware Used



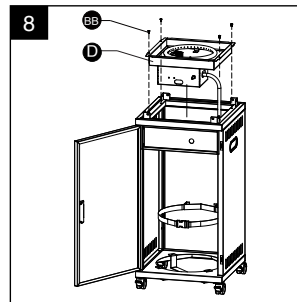
7. Install the round hole of the control panel to the right in the middle of the top of the left and right side plates, fix it with four M6X12 hexagon screws, close the front door, adjust the gap between the front door and the upper plate of the box, then open the front door and tighten the screws. Adjust the installation so that the front door can have a uniform gap with the upper plate and chassis of the box. If the control panel cannot be smoothly placed between the left and right side plates, loosen the screws A and B in the previous step, and then tighten the screws A and B after this step is assembled.



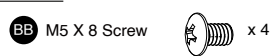
Hardware Used



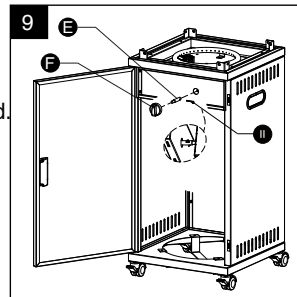
8. Put the valve rod of the burner head forward into the upper part of the box body, and screw the burner head on the upper plate of the box body with four M5X8 screws.



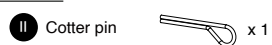
Hardware Used



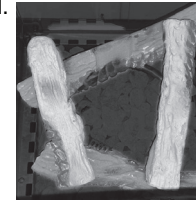
9. Insert the valve extension rod into the valve stem through the round hole of the control panel, then insert the knob into the extension rod and press it inward. Insert the cotter pin to link together the valve stem & extension rod. Bend cotter pin ends over to lock assembly.



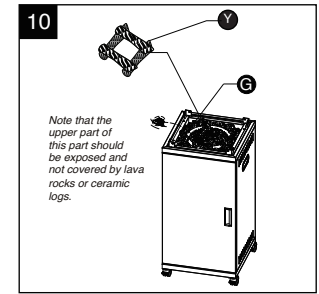
Hardware Used



10. Put the lava rocks in position, then place the 4 ceramic logs on the lava rocks as in picture below. The upper part of the ignition protection cover needs to be exposed.

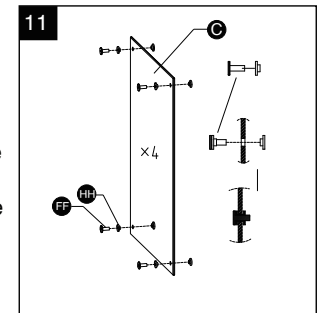


Recommended log positioning.

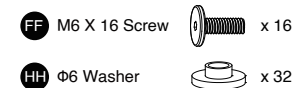


11. As shown in the figure 11.

1. Firstly, insert the convex surface of the T-shaped silicone hot plate into the M6X16 hexagon socket head screw, and push the gasket to the end of the screw.
2. Then, put the screws inserted into the silica gel gasket in step 1 into the holes at the four corners of the glass in the same direction in turn.
3. Put the convex surface of the silicone gasket into the screw from the back towards the glass, and press the screw to make it in close contact with the silicone gasket on the back.



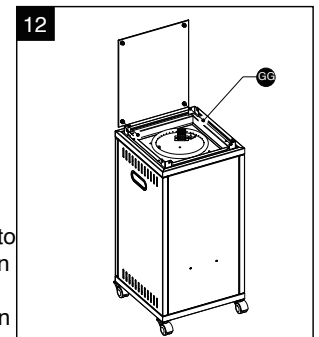
Hardware Used



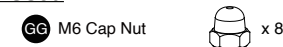
12-1. Insert the pre-placed screw in step 11 and two screws at one end of toughened glass of silica gel gasket into the holes of brackets at both ends of the upper part of the box, screw M6 cap nuts from the inside, and adjust the position of toughened glass to the center.

12-2. Assemble the remaining pieces of tempered glass to the box in turn according to the steps.

12-3. Adjust the gap at the bottom of each glass panel to be even. Tighten the screws just enough until the silicon gaskets have secured the glass panel in place. Thereafter tighten the nuts ½ turn. DO NOT overtighten the nuts.



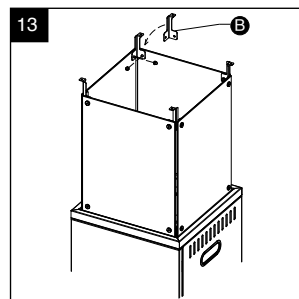
Hardware Used



13-1. Insert the two mounting holes into the lower part of the top cover bracket into the screws in the upper corner of the tempered glass cover, and then tighten the screws by the method of step 11.

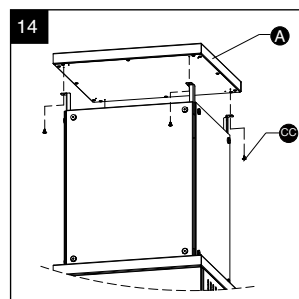
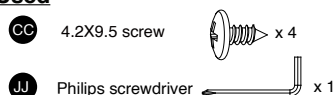
13-2. Install the remaining 3 roof brackets in turn.

Hardware Used

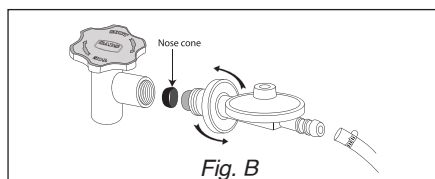


14. Place the top cover on the four top cover brackets, and adjust the screw holes on the left side of the four corners of the top cover to align with the mounting holes of the top cover brackets. Fix the top cover and the bracket with 4 pcs 4.8x9.5 tapping screws.

Hardware Used



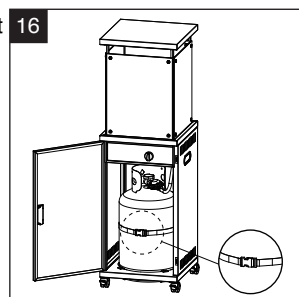
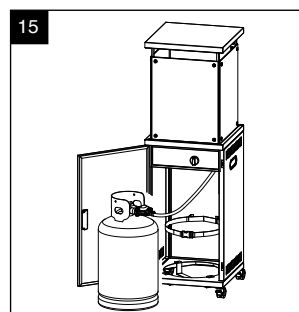
15. Connect regulator to cylinder and tighten. Only hand tighten, do not use tools or spanners to fasten regulator to cylinder.



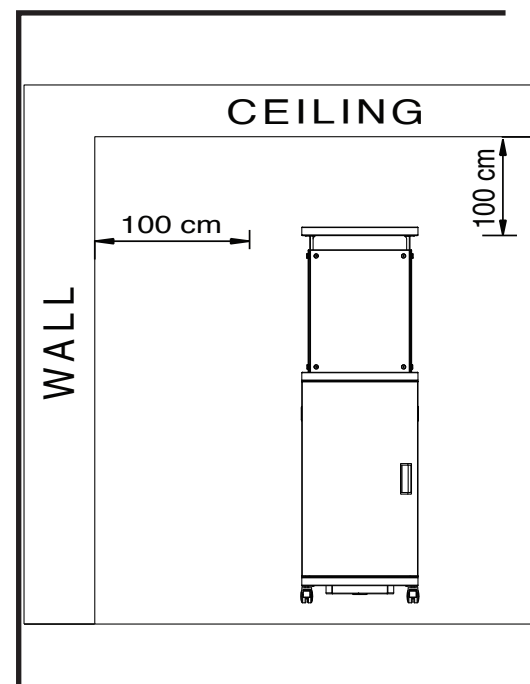
- When attaching the regulator to the cylinder, check that the rubber nose cone is in place, secure and in good condition, see Fig B.

16. **⚠ WARNING!** Ensure the hose does not make contact with any high temperature surfaces, or it may melt and leak causing a fire. After the cylinder is placed inside the heater, secure the cylinder with block belt tightly.

- Open the gas cylinder valve and do a leak test, see page 11.
- DO NOT light the patio heater when performing this leak test.



SAFE APPLIANCE LOCATIONS



- The patio heater is for outdoor use only. Always ensure that adequate ventilation is provided.
- Always maintain proper clearance from combustible materials, 1000mm, Front, Rear and Sides, Ceiling 1000mm minimum.
- Always place patio heater on level firm ground.
- Never operate patio heater in explosive atmosphere, for example in area where gasoline or flammable liquids or vapours are stored.

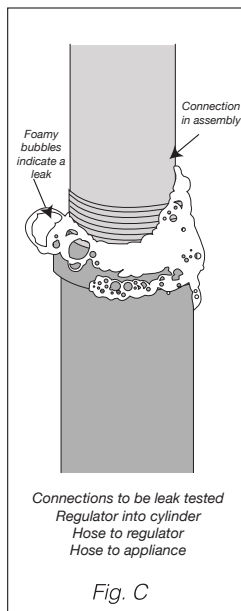


Warning: DO NOT TOUCH GLASS FLAME PROTECTOR when it is working or 30 minutes after switching off the patio heater.



NOTE:
This appliance is for outdoor use only.

LEAK TEST



The leak test must be carried out in a well-ventilated area, free from any flames or other sources of ignition.

- With the cylinder connected to the patio heater, open the gas cylinder valve.
- Brush the connections (patio heater to cylinder) with a solution of equal parts soap and water (make sure it's foamy).
- A stream of bubbles forming indicates a gas leak. (See Fig. C)
- If bubbles appear, turn the cylinder valve OFF (clockwise) and disconnect the patio heater from the gas cylinder.
- Tighten the connection and retry the leak test.
- If you are unsure or if you cannot tighten the connection, place the cylinder outside in a cool, well-ventilated area and contact Alva on 086 100 ALVA (2582).
- A leak between the patio heater and cylinder can lead to a high pressure fire, which is very dangerous and can result in extensive injury or even death.



How to do
a leak test



<http://www.youtube.com/watch?v=8LpZ1B0m23Y&feature=plcp>



FOR YOUR SAFETY IF YOU SMELL GAS

- Turn off the gas supply at the cylinder.
- Extinguish all naked flames. **DO NOT** operate any electrical appliances.
- Ventilate the area.
- Check for leaks (see LEAK TEST).
- If odour persists, contact your dealer or local gas supplier immediately.

OPERATION INSTRUCTIONS

BEFORE TURNING THE GAS SUPPLY ON:

- 1.) Your patio heater was designed and approved for outdoor use only. **DO NOT** use it inside a building, garage or any other enclosed area.
- 2.) Make sure that the surrounding areas are free of combustible materials, gasoline and any other flammable vapours or liquids.
- 3.) Ensure that there is no obstruction to air ventilation. Be sure that all gas connections are tight and there are no leaks present.
- 4.) Be sure that any components removed during assembly or servicing are replaced and fastened prior to starting.

BEFORE LIGHTING:

- 1.) Patio heater should be thoroughly inspected before each use, and be serviced by a qualified person annually. If relighting a hot patio heater, always wait at least 1 minute before doing so.
- 2.) Inspect the hose assembly for any evidence of excessive abrasion, cuts, or wear. Suspected areas should be leak tested - see page 11. If the hose leaks, it must be replaced prior to operation. Only use the replacement hose specified by the manufacturer.

LIGHTING:

- 1.) Turn the control knob to the "OFF" (o) position (Fig. D).
- 2.) Open gas cylinder valve (1½ turns anti-clockwise).

NOTE: For initial start or after any cylinder change, hold control knob in for 10 seconds to purge air from gas lines before proceeding.

- 3.) Depress gas control knob and turn anti-clockwise to "ignite" (Figure E) to light the patio heater. If needed, keep depressing and turning control knob counter-clockwise until the heater lights (you should hear a clicking sound).
- 4.) After heater lights for 5 seconds, release control knob. Push in and turn the control knob to "HIGH", then release control knob. If you want a lower temperature, push in the control knob and turn clockwise to "LOW" (Figure.F).

NOTE: If the burner fails to remain lit, all valves should be closed and a waiting period of at least 5 minutes should pass before attempting to light again.

WHEN PATIO HEATER IS BURNING:

Burner will display tongues of blue and yellow flames. These flames should not produce black smoke, if so this indicates an obstruction of airflow through the burner. If excessive black smoke is detected, turn off the gas cylinder and patio heater, call 086 100 ALVA (2582) or e-mail info@stingray.co.za



Lighting operation should comply with the lighting instructions section. Failing to do this will cause serious injury or explosion.

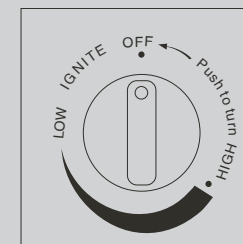


FIGURE D

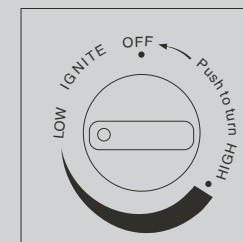


FIGURE E

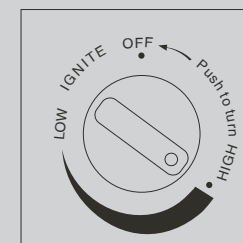
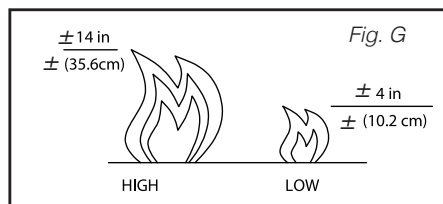


FIGURE F

Always check burner flames periodically to ensure proper operation. Flames should be mostly yellow with some blue for the best performance.

When the heater is ON, the normal flame from High to Low is similar to the below image. (Fig. G).



RE-LIGHTING:

- 1.) Turn control knob "OFF" (o).
- 2.) Repeat the "Lighting" step on page 12.
- 3.) When relighting a hot fire pit, always wait at least 5 minutes before doing so.

TURNING OFF THE BURNER:

- 1.) Make sure the control knob is in the "OFF" (o) position and wait 30 minutes until the appliance is cool.
- 2.) Turn the cylinder valve off, then disconnect the hose and regulator from the cylinder.
- 3.) Store the cylinder in a safe and secure location.

FLASHBACK (flames in the burner tube)

If a flashback occurs (indicated by a roaring noise), immediately close off the cylinder valve.

- Turn the patio heater OFF at the control knob.
- Disconnect the regulator and allow the patio heater to cool.
- Check for blockages in the burner head. Clean with compressed air, a small, soft brush or pipe cleaners.
- If the problem persists in reuse, have the patio heater checked by a qualified technician.

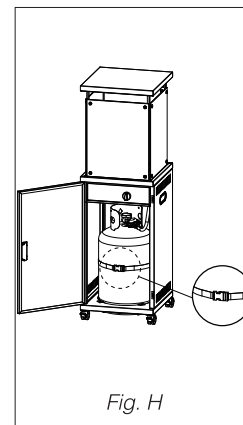


FOR YOUR SAFETY
Patio heater will be hot after use. Handle with extreme care.



BEFORE REMOVING THE BURNER:
All the ceramic logs and lava rocks must be removed from the patio heater and the steel plate cleaned of debris and dust."

CHANGING YOUR CYLINDER



Make sure the cylinder valve is closed (by turning it clockwise). Allow the patio heater to fully cool before replacing the cylinder. Open the patio heater door to expose the cylinder, allowing you to access and replace the cylinder (as see on Fig. H)

Remove and replace the cylinder. ALWAYS check that the regulator sealing washer (nose cone) is intact and in place before reattaching the regulator to a cylinder.(Fig. B, Page 9)

- Perform the leak test as detailed on page 11 every time you replace the gas cylinder.
- DO NOT attempt to remove the regulator while the patio heater is on or if the cylinder valve is not closed.

MAINTENANCE

- Always make sure the patio heater is OFF and cool, with the cylinder valve closed, before conducting any maintenance.
- Your patio heater should be checked once a year by a qualified technician.
- If faults are suspected or detected, stop using the patio heater and contact ALVA.
- Clean the exterior and storage area of your patio heater when required to remove dust.
- DO NOT use abrasive products to clean the patio heater; these may damage the paint work.
- Check the burner and remove any debris, dirt, spider webs or wasp nests from the burner ports by using compressed air or a pipe cleaner. DO NOT clean the burner with water or tamper with the jets. If a jet is blocked it must be replaced with an original manufacturer marked jet.
- Replace parts and allow the patio heater to dry properly before storing.
- If the gas control or ignitor is exposed to water or gets wet, dry it properly before attempting to light the patio heater. You might have to replace the parts if the patio heater does not ignite.
- The airflow must not be obstructed. Keep the controls and burner passage clean.



WARNING:
Never attempt to remove the regulator if the patio heater is on or if the cylinder valve is not properly closed.

Clean patio heater, logs and lava rocks if necessary with a soft brush or blow clean with compressed air. If any part of the patio heater is in need of replacing, use only original Alva parts. Using any other spare parts is dangerous and will void the warranty.

When the heater is not in use for extended periods, always keep the burner head covered.

Your heater should be checked once a year by a qualified technician. Take special care to retighten any fixtures or nuts and bolts that have come loose.

Signs of a blockage:

1. Gas odour with black smoke.
2. Patio heater making popping sounds.
3. Patio heater "Flashes back" in burner tube.

Storage

Store the patio heater in a cool dry place. If in a coastal area, extra care must be taken in selecting the storage area as rust will occur if exposed to the elements. Disconnect the cylinder and store separately in a protected dry and cool place. If desired, cover the patio heater to protect exterior surfaces and to help prevent dust build up in the air passages.

Note: Wait until the patio heater is cool before covering

Cleaning and care

- Wipe off all surfaces with a soft, moist cloth. DO NOT clean the patio heater with combustible or corrosive cleaners.
- Remove debris from the burner to keep it clean and safe for use.
- To clean glass flame protector panels, we suggest using a damp cloth with soap solution or suitable glass cleaner. Rinse and dry afterwards if required.
- To clean logs and lava rocks, we suggest using a soft brush or vacuum cleaner, do not use water.

SPECIFICATIONS

Model	GHP45
Type of Gas	LPG
Operating Pressure	2.8kPa
Injector Size	1.90mm
Gas Consumption	946gr/hr at Max
Heat Output	13kW
This patio heater has been tested and is LPGSA approved under specifications SANS 1539 (appliance), SANS 1237 (regulator) SANS 1156 (hose)	

FREQUENTLY ASKED QUESTIONS

Q: Why is there an odour when I use a gas patio heater?

A: All gas appliances give off an odour. This could be harmful if inhaled for extended periods of time. This "smell" is normal, and it does not mean that you have a gas leak. The smell of raw gas (just before you ignite the appliance) differs from the smell coming from the heater when it is in use. The odour is added to allow easy gas detection.

Q: Why must there be ventilation when using a gas patio heater?

A: Whenever fuel (LP Gas in this case) is burned, ventilation is needed. Any fire needs oxygen to burn. Think of a fireplace, you require a chimney or flue for the smoke to exit the house. Even though a gas patio heater does not generate smoke, which can be dangerous if not diluted by fresh air. Always ensure adequate ventilation by leaving a door or window open.

Q: How long will the gas in my cylinder last?

A: This depends on how you use your patio heater. It is easy to calculate your gas consumption. Take the capacity of the gas cylinder in grams (i.e. 9000g for a 9kg cylinder) and divide it by the gas consumption of the heater, on your desired setting. The answer to the calculation is the approximate number of hours that your heater will burn for.

Q: What do I do if I have an over-filled cylinder?

A: The best method to determine if your cylinder is over-filled is to weigh it. Subtract the "tare" mass from cylinder weight – this gives you the weight of your gas. If this gas weight exceeds your cylinder design weight (9kg) then return the cylinder to your gas supplier.



If you are still unable to correct the problem with the information in this guide, then you need to contact your nearest dealer or manufacturer.

TROUBLE SHOOTING GUIDE

TROUBLE	CAUSE	REMEDY
Odour	Combustion	N/A - The Combustion process will always cause an odour
Strong Odour	Incorrect gas mixture	Obtain LPG only from reputable LPG dealers
	Unburned gas leak	Perform a leak test. Always ensure there is proper ventilation
Burns then dies	Over-filled Cylinder	Return to gas supplier
	Ventilation	Make sure there is adequate ventilation
	Empty Cylinder	Replace with a full cylinder
Patio heater does not light up	Empty cylinder	Replace with gas full cylinder
	No gas flow	Open cylinder valve
Carbon build-up Thick black smoke	Blockage in the burner	Turn control knob to OFF position let appliance cool. Remove blockage and clean burner inside and outside
Low flames or not full flame around burner	Flame spreader holes partially closed	Clean the burner



How to test if your cylinder is overfilled



<http://www.youtube.com/watch?v=YaVsYE8nzCw&feature=plcp>



Should you experience problems with this gas patio heater, carry out the necessary checks as per Trouble Shooting Guide. If you are still unable to correct the problem with the information in this guide, then you need to contact your nearest dealer or manufacturer

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