

Santini Flame Heater

Assembly and Operation Instructions
901565



Heat Outdoors

Unit 9, Stort Valley Industrial Estate
Stansted Road, Bishop's Stortford
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Warning

Please carefully read all instructions provided before using this appliance. This heater 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.

- Perform the 'leak test' after each changing gas cylinder.

Never check for leaks with a naked flame

- Do not store other flammable vapours or liquids near this appliance .

If you smell gas, follow the steps below:

1. Extinguish all naked flames; do not operate any electrical appliances
2. Ensure the regulator is fixed to the bottle correctly.
3. Check the hose from the gas bottle to the unit has no splits - this can be done with soapy water to identify splits in the hose.
4. If odour persist contact Heat Outdoors or a gas supplier.

For outdoor use only.

Keep the instructions for future reference.



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Safety Precautions

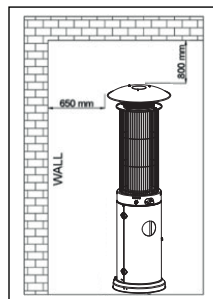
- Performance and safety service of this heater should be performed annually by a qualified gas engineer.
- Do not use the heater in a combustible atmosphere.
- Before using the unit check the hose for splits, twists which may cause gas to leak or prevent flow.
- Disconnect gas cylinder before moving the heater.
- Do not attempt to modify any parts of the heater.
- The appliance is not recommended to be used in basements, below ground level or in areas with limited / no ventilation.
- Ensure the heater is placed on a solid and level surface.
- It is recommended that you should change your regulator annually to avoid blockages.
- Do not clean the heater with cleaners that are combustible or corrosive.
- Do not paint any part of the heater.
- The gas cylinder valve should be turned off when the heater is not in use.
- Avoid using the heater when it is raining to prevent water ingress.
- Keep children and vulnerable people away from the heater when in use.
- Do not move the heater when it is in use.
- Check the heater immediately if any of the following exists:
 - There is smell of gas.
 - The heater performance of the heater seems to be reduced.
 - The burner makes popping noise during use (a slight popping noise is normal when the flame is extinguished after use).
- When the heater is in use the surface of the grills, reflector and glass will reach a high temperature, keep children away from the heater when in use.
- Do not obstruct the ventilation holes of the cylinder housing.
- It is recommended that the gas tube is replaced annually to avoid any splits or holes forming.
- Only use the gas specified - 13kg-15kg Propane patio gas.
- In adverse weather conditions it is advised the heater is stored undercover or inside where possible.

Appliance and Location

The appliance is for outdoor use only.

Do not use indoors or in an enclosed area.

Always maintain proper clearance from combustible materials
- minimum 800mm from the top of the unit, and a minimum of 650mm from sides.



Leakage Test

Gas connections on the appliance are leak tested prior to shipment. Possible mishandling of the appliance during shipment can damage the integrity of some parts.

A complete gas leakage test must be performed again at the installation site. Please follow the procedure below for leakage test.

1. It is advised to make a soap / liquid detergent and water solution to identify any holes/splits or loose fittings in the tube.
2. Make sure the control tap is in the OFF position (full disk = ●) on the control panel.
3. Apply the solution to the hose using a brush or rag.
4. Turn ON the gas supply and check for bubbles from the hose. If the air bubbles appear this indicates a leak in the hose.
5. If a leak is present, turn OFF the gas supply immediately, tighten any leaking fitting carefully, turn gas again and recheck.

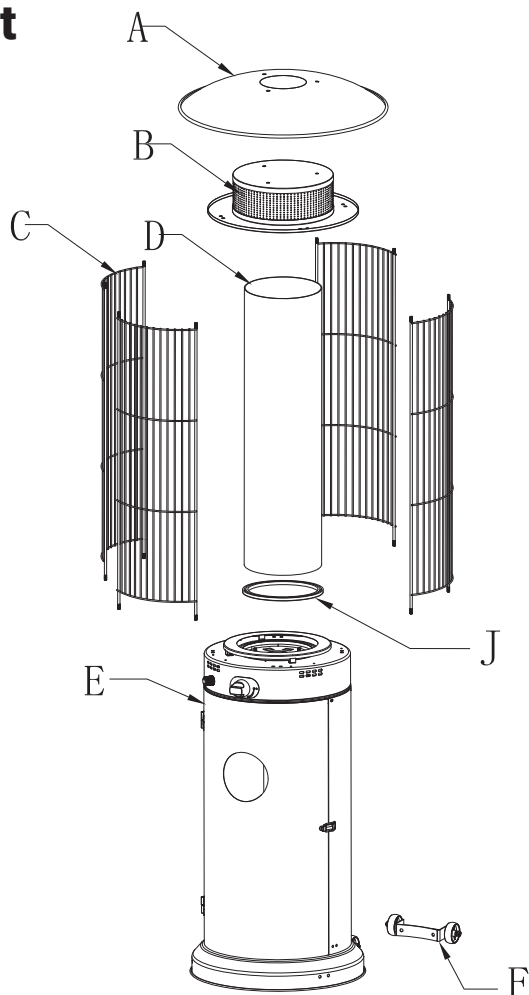
Installation






Important safety requirements:

THIS APPLIANCE IS FOR OUTDOOR USE ONLY

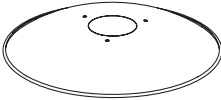
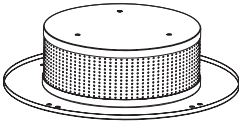


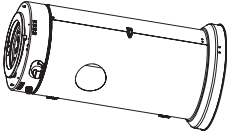
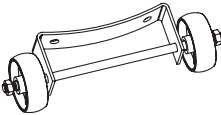

1. It is not recommended for this heater to be installed or used indoors, garages or any other enclosed area.
2. **DO NOT** place articles on or against this appliance.
3. **DO NOT** use or store flammable materials near this appliance.
4. **DO NOT** operate this appliance unless it is fully assembled 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 serviced by a qualified gas engineer. More frequent cleaning may be required.

Parts List



BB	CC	DD	EE	FF
				
M6	M8 Bolt	M8 Wahser	M8 Wing nut	M8*16
22PCS	3PCS	6PCS	3PCS	2PCS

Parts List

Part Number	Description	Photo	Quantity
A	Reflector		1
B	Emitter screen		1
C	Protection guard		4
D	Glass tube		1
E	Base cylinder		1
F	Wheels		1
G	Rubber Ring		1

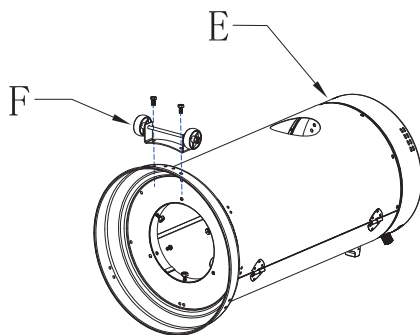
Assembly Instructions

Do not fully tighten fittings until assembly is complete

1. Attach wheels to base cylinder of the heater. Line up holes in wheel with corresponding holes in base and insert 2pcs M8x16 screw (FF) through holes.

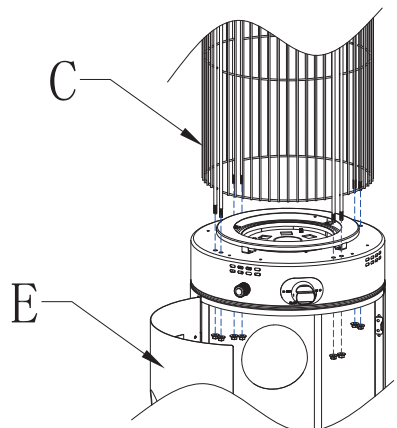
Ensure that wheels are parallel to the base and hand tighten the screws.

Parts used:
F M8X16 2PCS



2. Attach 4pcs protection grills to the holes on top of base cylinder using 8pcs M6 nuts (BB) to secure in place.

Parts used:
BB M6 8PCS



3. Insert 3pcs M8 bolts (CC) into holes on screen cover. Attach 3pc M8 washers (DD) over the bolts, place the reflector onto the bolts and attached 3pcs M8 washers (DD) over bolts and onto reflector. Secure with 3 pcs wing nuts (EE). Do not over tighten.

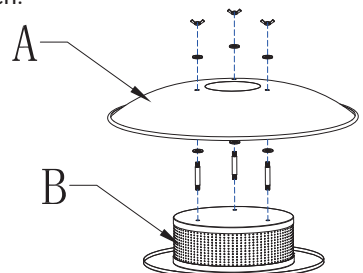
Parts used:
CC M8 Bolt 3PCS



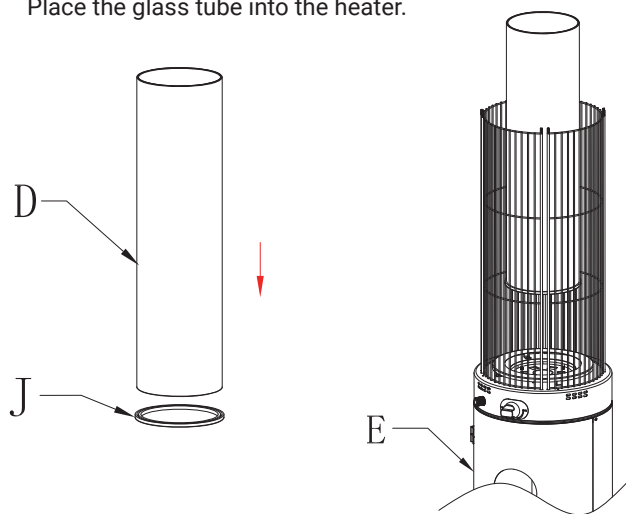
DD M8 Washer 6PCS



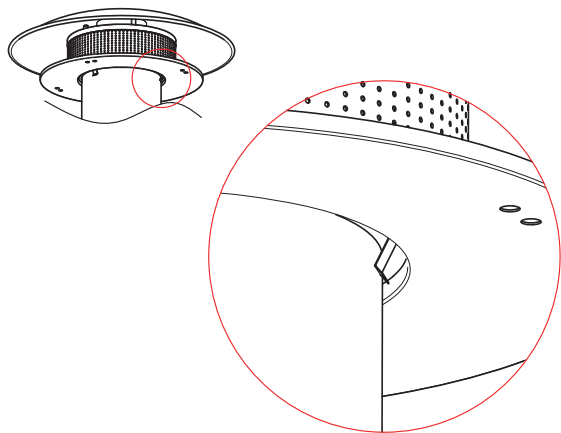
EE M8 Wing nut 3PCS



4. Place the glass tube into the heater.

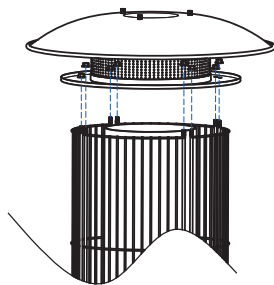


5. Place the emitter screen assembly onto the protection guards, make sure the thread goes through holes on bottom of emitter screen assembly.



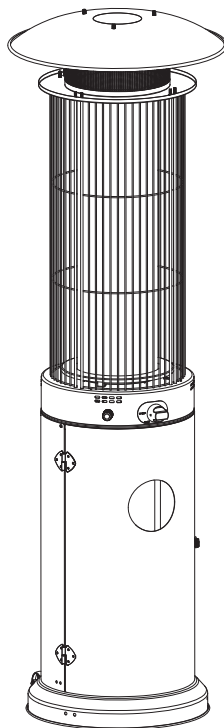
- Using 8pcs M6 nuts (BB) to tighten protection guards.

Parts used:
BB M6 8PCS.



- Secure all bolts. The unit is now fully assembled.

Complete



Operation

Preparation

You will need to purchase a suitable size LPG cylinder that can be installed to the compartment. You must use a pressure regulator and flexible tube which complies with the outlet pressure of the appliance. Connect the hose to the hose connector in the control box.

Warning

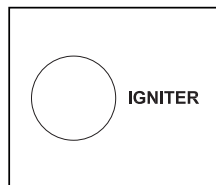
Always test the hose for leaks using the leakage test described at the start of the instruction manual.

- Never use the heater while it is raining, the glass tube may break if suddenly coming into contact with water.
- Never splash liquid on the glass tube when the heater is on.
- The glass tube will be extremely hot when in operation, never try to touch it.
- Children and vulnerable people must be kept away from the heater at all times.
- Always ensure the heater stands firmly, the glass tube may break if the heater falls.
- Never use the heater if the glass tube has signs of damage i.e. cracking.

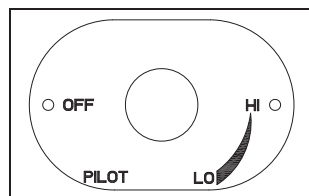
Lighting Instructions

Ignition Instructions

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



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. Several attempts may be necessary.
4. If the pilot is lit, 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 of the gas cylinder or the regulator after use.



To Turn Off The Heater

1. Press and turn the control knob clockwise to OFF position.
2. Turn the gas cylinder valve to OFF or closed and disconnect the cylinder.

Cleaning & 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 usual temperature.
- Heater glow is excessively uneven.
- Heater makes popping noises.
- Spider and insects can nest in burner or orifices. This can damage the heater and render it dangerous and 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).
- 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 LPG 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).
- Cover heater to protect exterior surfaces and to help prevent dust and debris collecting in air passages.

Warning

FOR YOUR SAFETY:

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

NOTE


- In a salt-air environment (such as near an ocean) corrosion occurs more quickly than normal.
- Wait until heater is cool before covering.

Troubleshooting

Problem	Solution
Pilot will not light	<ul style="list-style-type: none">• Gas valve may be OFF Turn the gas valve ON• Gas cylinder may be empty. Refill gas cylinder.• Pipes or jets blocked. Clean clean them accordingly and retry.• Loose connections. Check all fittings are secure
Pilot light will not stay on	<ul style="list-style-type: none">• Debris around the pilot light. Clean the area around the pilot light and retry.• Loose connections. Check all fittings are secure.• Damage to the thermocouple. This may need to be replaced.• Gas leak in hose. Perform leak test (page 2).• Lack of gas pressure. Check bottle levels and replace/ refill if necessary.
Burner will not light	<ul style="list-style-type: none">• Lack of gas pressure. Check bottle levels and replace/ refill if necessary.• Openings blocked. Clean openings accordingly and retry.• Control knob is not in the ON position.• Damage to the thermocouple. This may need to be replaced.• Pilot light assembly bent or not in correct position. Adjust to the correct position and retry.

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

Technical Specifications

Item Number	KLD7003	Flame Heater	 0359CR1461	
Nominal HEAT INPUT	(Hs) 10.5 kW (762 g/h)			
Appliance Category	I3+(28-30/37)	I3B/P(30)		
Gas Reference	G30/G31	G30/G31		
Normal Gas Pressure	28-30/37 mbar	30 mbar		
FOR USE OUTDOORS ONLY				
Close the valve of the gas cylinder or the regulator after use. The use of this appliance in closed areas can be dangerous and is PROHIBITED. Read the instructions before using this appliance. The appliance must be installed in accordance with the instructions and local regulations.				



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