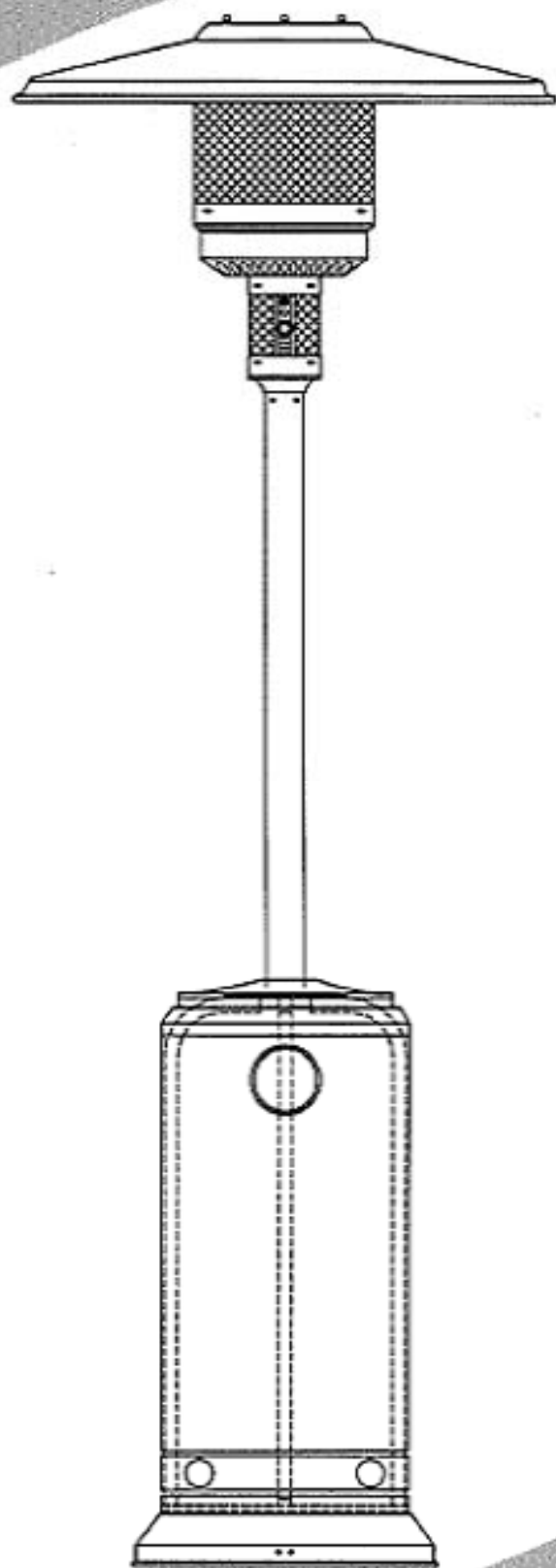




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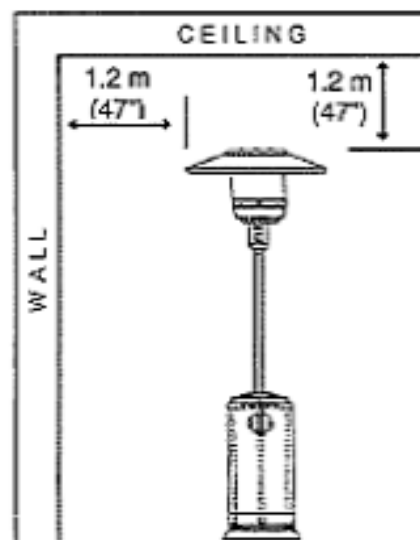
# CAUTION

## PLEASE READ CAREFULLY THE FOLLOWING SAFETY GUIDELINES BEFORE OPERATION.

- This patio heater is for outdoor use only (see attached diagrammatical representations of outdoor areas).
- This outdoor heater is not intended to be installed on recreational vehicles and/or boats.
- Do not use the heater for the heating of domestic premises.
- Do not use the heater in the basements or below ground level.
- Gas heater without atmospheric sensing device should only be used for heating well-ventilated buildings used for animal rearing or for outdoor use.
- The installation must conform to appropriate State regulations.
- 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.
- Remove transit protection before use.
- Do not store or use petrol 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.
- The recommended frequency of checking the tubing or the flexible hose is at least once per month and each time the cylinder is changed. If it shows signs of cracking, splitting or other deterioration it shall be exchanged for new hose of the same length and of the equivalent quality.
- The tubing or the flexible hose must be change within the prescribed intervals.
- All leak tests should be done with a soapy water 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.
- Do not transport the 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 gas cylinder should be turned off when the heater is not in use.
- Check the heater immediately if any of the following occurs:
  - The heater does not reach temperature.
  - The burner makes popping noise during use (a slight noise is normal when the burner is extinguished).
  - Smell of gas in conjunction with extreme yellow tipping of the burner flames.
- Avoid inhaling fumes emitted from the heater's first use. Smoke and odour from the burning of oils used in manufacturing will appear. Both the smoke and odour will dissipate after approximately 30 minutes.
- The hose assembly must be located out of pathways where people may trip over it or in area where the hose will not be subjected to accidental damage.
- Avoid twisting the flexible tubes and hoses.
- Any guard or other protective device removed for 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.

## HEATER LOCATION

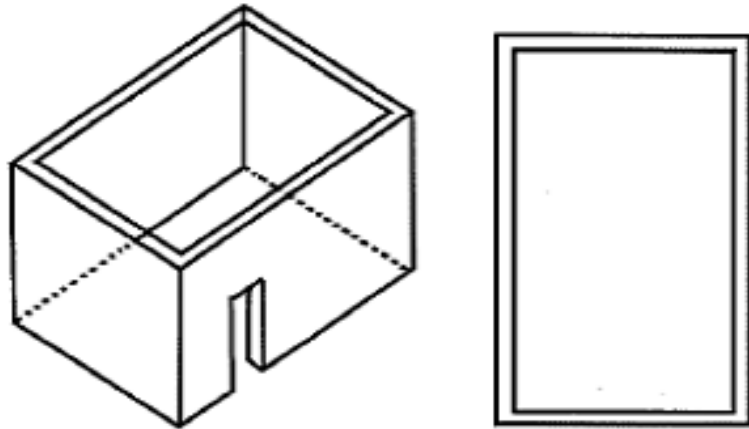
- The heater is primarily for outdoor use only (see diagrammatical representations of outdoor areas). Do not use it for indoors or in an enclosed area. Always ensure that adequate fresh air ventilation is provided.
- Do not use the heater for the heating of domestic premises.
- Do not use the heater in the basements or below ground level.
- This appliance shall only be used in an above ground open-air situation with natural ventilation, without stagnant areas, where gas leakage and products of combustion are rapidly dispersed by wind and natural convection.
- Any enclosure in which the appliance is used shall comply with one of the following:
  - An enclosure with walls on all sides, but at least one permanent opening at ground level and no overhead cover.
  - Within a partial enclosure that includes an over head cover and no more than two walls.
  - Within a partial enclosure that includes an overhead cover and more than two walls, the following shall apply:
    - At least 25% of the total wall area is completely open, and
    - At least 30% of the remaining wall area is open and unrestricted.
    - In the case of balconies, at least 20% of the total wall area shall be and remain open and unrestricted.
- This appliance shall be used only in an outdoor area and shall not be used in a building, garage or any other enclosed area.
- Always maintain 1.2-m (47") clearance from combustible materials from the top and side.
- 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.



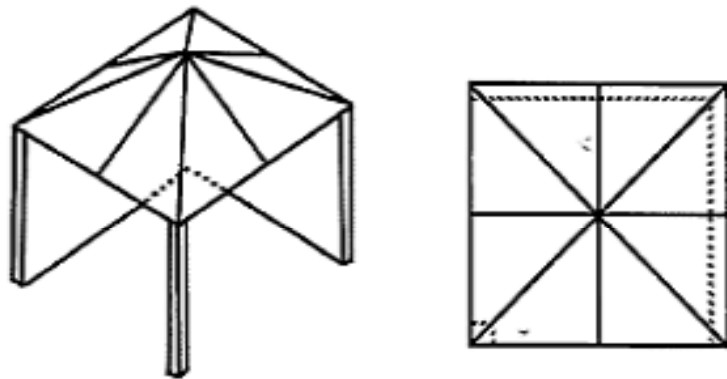
Fortification of base to the ground



# DIAGRAMMATICAL REPRESENTATIONS OF OUTDOOR AREAS

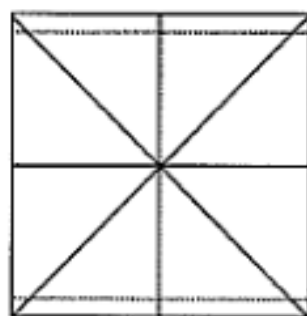
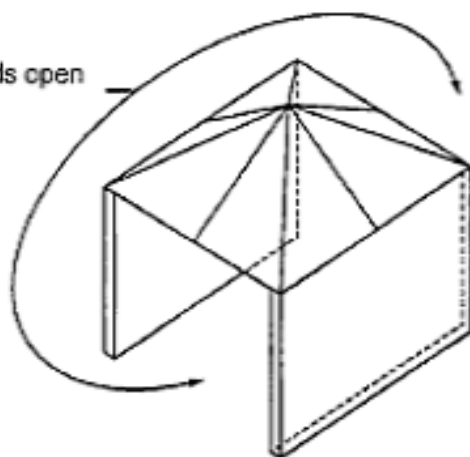


OUTDOOR AREA-EXAMPLE 1



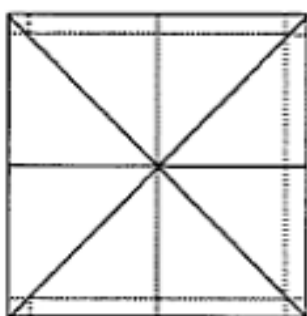
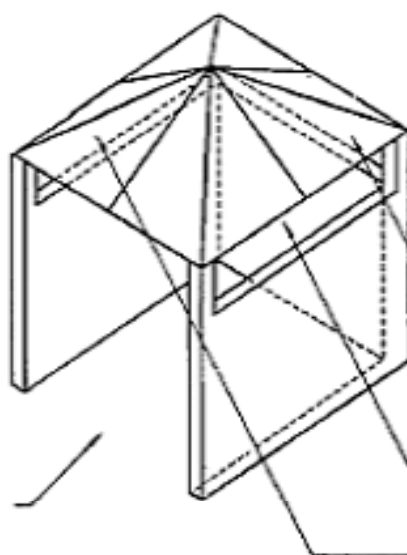
OUTDOOR AREA-EXAMPLE 2

Both ends open



OUTDOOR AREA-EXAMPLE 3

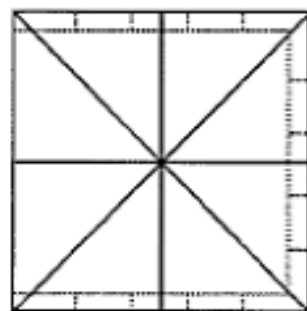
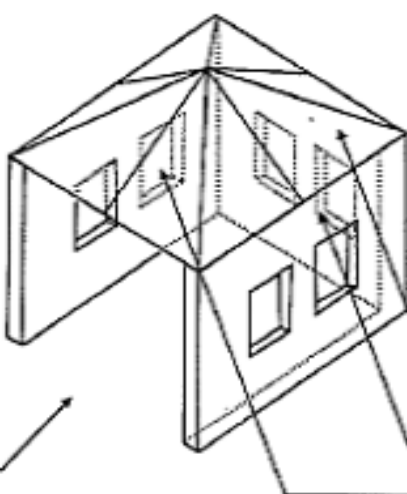
Open side at  
least 25% of  
total wall area



30% or more in total of  
the remaining wall area  
is open and unrestricted

OUTDOOR AREA-EXAMPLE 4

Open side at  
least 25% of  
total wall area



30% or more in total of  
the remaining wall area  
is open and unrestricted

OUTDOOR AREA-EXAMPLE 5

## GAS REQUIREMENTS

- Use propane or LPG only.
- The heater is designed for use with 11-13 kg cylinder. Maximum size of cylinder suitable for the appliance, w/ regulator attached, is Ø31 cm x 64 cm. Inner dimension of stand within the supporting bars is Ø32 cm x 69 cm.
- The appliance requires approved gas hose in 60 cm length and a regulator, or a gas hose in 140 cm length and a regulator if no gas pipe (approx. 84 cm) is used.
- Regulator maximum inlet pressure must not exceed 690 kPa (100 PSI).
- Regulator outlet pressure to be 37 mbar.
- The hose and regulator assembly must conform to local standard codes.
- The installation must conform to local codes, or in the absence of local codes, to the standard for the storage and handling of liquid petroleum gases.
- A dented, rusted or damaged gas cylinder may be hazardous and should be checked by your gas supplier. Never use a gas cylinder with a damaged valve connection.
- The gas cylinder must be arranged to provide for vapor withdrawal from the operating cylinder.
- Avoid twisting the flexible tubes and hoses.
- Never connect an unregulated gas cylinder to the heater.
- Disconnect the gas cylinder when the heater is not use.

## LEAKAGE TEST

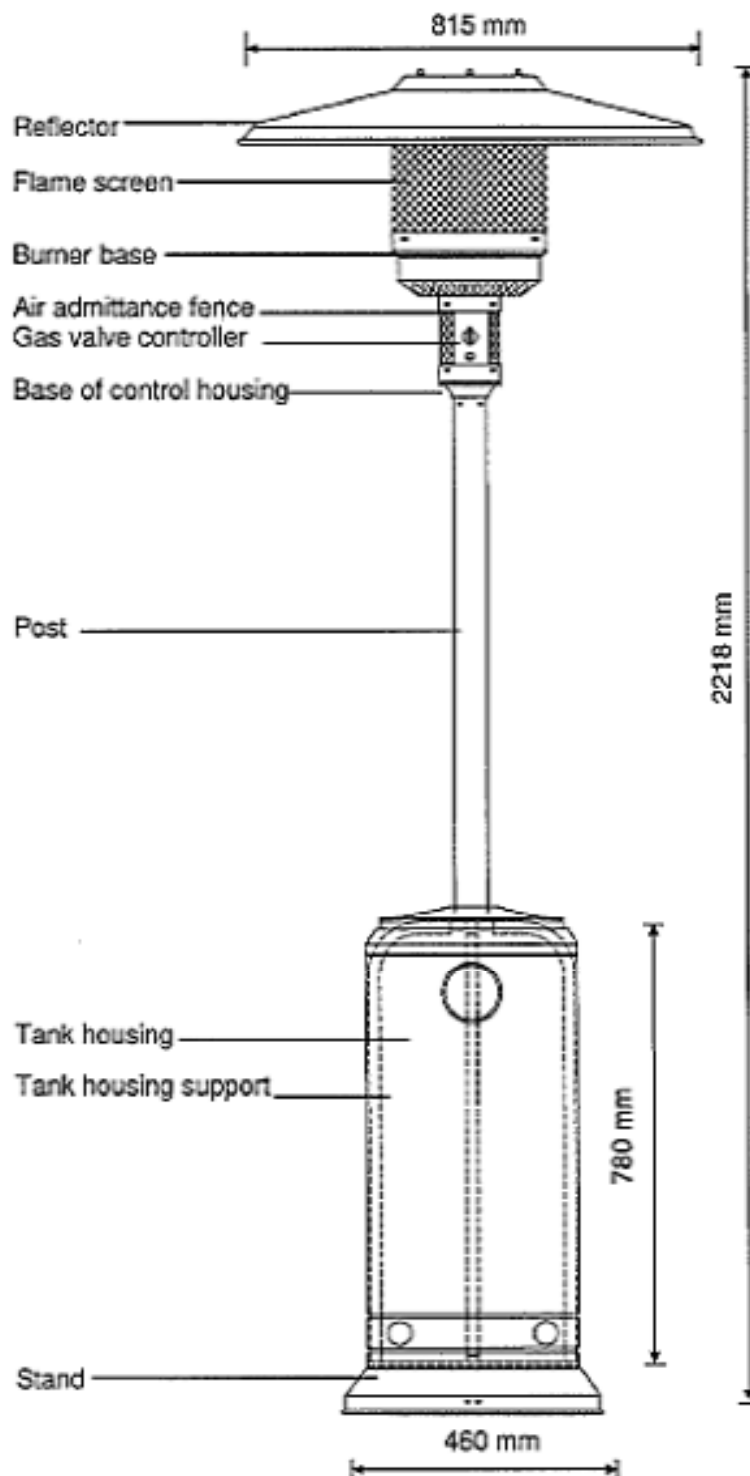
Gas connections on the heater are leak tested at the factory prior to shipment. A complete gas tightness check must be performed at the installation site due to possible mishandling in shipment or excessive pressure being applied to the heater. The heater must be checked with a full cylinder.

1. Make sure the safety control valve is in the OFF position.
2. Make a soapy water solution of one part liquid detergent and one part water. The soapy water solution can be applied with a spray bottle, brush or rag to all gas connections. Soap bubbles will appear in case of a leak.
3. Turn the gas supply ON.
4. In case of a leak, turn off the gas supply. Tighten any leaking fittings, then turn the gas supply ON and recheck. Contact your dealer or gas supplier for assistance if bubbles continue to appear.

### **WARNING**

Never leak test while smoking.

## PARTS AND SPECIFICATIONS



### A. Construction and characteristics

- Transportable terrace/garden heater with tank housing
- Stainless steel flame screen
- Heat emission from reflector
- Variable control knob with piezo electric ignition
- Tilt switch shuts off heater automatically when appliance is accidentally knocked down

# OPERATION

## TO TURN ON THE HEATER

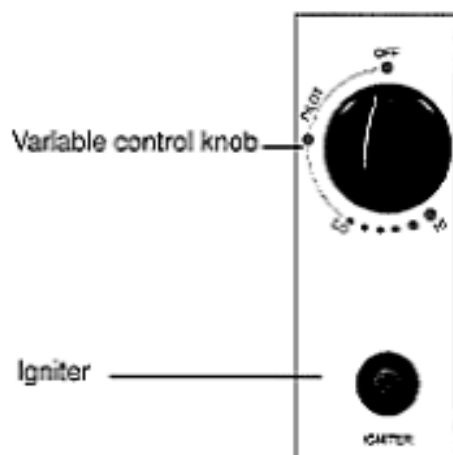
1. Turn on the valve on the gas supply cylinder.
2. Press and turn the variable control knob to PILOT position (counter-clockwise 90°).
3. Press down the variable control knob and hold for 30 seconds. While holding down the variable control knob, press the igniter button several times until the pilot flame ignites. Release the variable control knob 20~30 seconds after the ignition.

Note:

- If a new tank has just been connected, please allow at least one minute or more for the air in the gas pipeline to purge out through the pilot hole, or simply do step 3.
  - When lighting the pilot flame make sure that the variable control knob is continuously depressed while pressing the igniter button. Variable control knob can be released after the pilot flame is lit for 20~30 seconds.
  - Pilot flame can be watched and checked from the peephole located on the base of burner.
  - If the pilot flame does not light or it goes out, repeat step 3.
4. Turn the variable control knob to LO and leave it there for 5 minutes or more before turning the knob to desired temperature setting.
  5. If the burner flame goes out accidentally or it is blown out by wind, turn off the heater and wait at least 5 minutes or more to let the gas dissipate before re-lighting to avoid possible gas explosion. Repeat steps 2 to 4.

## TO TURN OFF THE HEATER

1. Turn the variable control knob to PILOT position.
2. Press and turn the variable control knob to OFF position.
3. Turn off the valve of the gas cylinder and disconnect the cylinder.



## **WARNING**

1. The whole gas system, hose, regulator, pilot or burner should be inspected for leak before use.
2. Check the hose assembly for sign of extreme abrasion, cuts or wears. Suspected areas should be leak tested. If the hose leaks, it must be replaced with a new one that conforms to local standard codes.
3. Avoid twisting the flexible tubes and hoses.
4. Make sure the ventilation opening of the cylinder enclosure, control compartment, burner and circulation air passageways of the heater are free and clear of debris. If debris, spider or insect nests are found, clean the holes with heavy-duty pipe cleaner or compressed air.
5. Always keep a dry chemical fire extinguisher readily available.
6. For safety, always allow a 5-minute complete shut off period before re-lighting a hot heater.

## **WARNING**

1. Close the valve of the gas cylinder or the regulator after use.
2. Do not move the heater, or cover it with protective cover after it has been turned off until the temperature has cooled down.



## REPLACING THE GAS CYLINDER

1. Close the valve of the gas cylinder.
2. Disconnect the regulator from the cylinder following the instructions that came with your regulator.
3. Replace the cylinder.
4. In the absence of any flame, remove the plug or seal cap from the cylinder valve.
5. Check for the presence and good state of the gasket before connecting the regulator.
6. Perform leak test using soapy water solution.

### WARNING

1. Changing of cylinder must be undertaken in a flame-free atmosphere.
2. Make sure that all taps on the consuming appliance are in closed position.

## STORAGE

- Always close the valve of the gas cylinder after use or in case of a disturbance.
- Remove the pressure regulator and the hose attachment if the heater is not to be used for a period of time.
- Cylinder must be stored outdoors in a well-ventilated area out of the reach of children.
- Disconnected cylinder must have threaded valve plugs tightly installed and must not be stored in garage or any other enclosed area.
- Storage of heater indoors is permissible only if the cylinder is disconnected and removed from the heater.
- Check the tightness of the gas valve and for damage. If you suspect you have a damaged gas valve, have it changed by your gas dealer.
- Never store liquid gas cylinder in a sub-terrain, or at places without adequate air ventilation.

## CLEANING AND CARE

- Wipe off powder coated surfaces with soft, moist rag and soap water. Do not clean heater with cleaners that are combustible or corrosive.
- Remove debris, spider and insect nests from ventilation opening of the cylinder enclosure, control compartment, burner and circulation air passageways of the heater with heavy-duty pipe cleaner or compressed air to keep appliance clean and safe for use. Never clear ports or other openings with toothpicks or other article that will break and block the ports.
- If carbon deposits develop, remove the reflector and flame screen and clean them with soap water. Do not paint the flame screen, control panel or reflector.
- Cover the burner unit with the supplied protective cover when the heater is not in use. Wait until the heater is cool before covering.
- In a salt-air environment, such as near an ocean, corrosion occurs more quickly than normal. Check frequently for corroded areas and repair them promptly.

### WARNING

1. Do not perform maintenance after heater has been turned off until the temperature has cooled down.
2. Do not expose the pilot, controllers and parts underneath the burner to water. Do not use the heater if any of these parts are exposed to water until the appliance is inspected or repaired by a qualified service person.

## GENERAL SAFETY

- Equip your home with a least one smoke detector on each floor.
- Keep at least one dry-powder operative ABC-type fire extinguisher in the home at all times.
- Keep areas around heat sources free of papers and trash.
- Store paints, solvents, and flammable liquids away from all heat and ignition sources.
- Develop a fire-escape plan before a fire occurs. Be certain every person understands the plan and is able to carry out the plan in case of emergency.
- If your clothing does catch fire don't run. Drop down immediately and roll to smother the flames.

## FIRST AID FOR A BURN

### EYES

Seek medical attention IMMEDIATELY. Do not put ointments or liquids in eye.

### ELSEWHERE

- Consult a doctor if the burn is not healed in 24 hours, or the burn is larger than the size of a palm.
- If serious, send promptly for an ambulance or a doctor.
- If possible, run affected area under cold water, not ice or ice water, for 10-15 minutes if the skin is intact. Cut and gently lift away any clothing covering the burned area, without pulling clothing over the burns. Leave in place any clothing that is stuck to the burns. Do not put any creams or greases on the burned area.
- If the casualty's hands or wrists have been burned remove jewelry if possible without causing further injury (rings, watches, and so forth) and place in his pockets. This prevents the necessity to cut off jewelry since swelling usually occurs as a result of a burn.
- Do not pop any blisters. Cover the burn with a light gauze dressing.
- If blisters pop, apply a light antibiotic ointment and dress as above.

## ABNORMAL OPERATION AND TROUBLE SHOOTING

For abnormal operations see problems checklist for problem and solution.

If service is required, contact an authorized or qualified service person to service the appliance.

## PROBLEMS CHECK LIST

<u>PROBLEM</u>	<u>PROBABLE CAUSE</u>	<u>SOLUTION</u>
There is no spark at pilot when the control knob is pressed in and turned counterclockwise to Pilot position	<ul style="list-style-type: none"> <li>• Igniter electrode positioned wrong.</li> <li>• Igniter electrode broken.</li> <li>• Igniter cable pinched or broken.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace igniter electrode.</li> <li>• Replace electrode.</li> <li>• Free electrode cable. If damaged, replace it.</li> </ul>
There is spark but no ignition when the control knob is pressed in and turned counterclockwise to Pilot position	<ul style="list-style-type: none"> <li>• Gas supply turned off.</li> <li>• Control knob not in pilot position.</li> <li>• Control knob not pressed in while in pilot position.</li> <li>• Pilot is clogged.</li> <li>• Air in gas lines.</li> </ul>	<ul style="list-style-type: none"> <li>• Turn on the gas supply.</li> <li>• Turn variable control knob to pilot position.</li> <li>• Press in control knob while in pilot position.</li> <li>• Call a qualified person.</li> <li>• Purge air from lines by pressing the control knob continuously until there's a faint gas smell.</li> </ul>
Pilot lights but flame goes out when control knob is released.	<ul style="list-style-type: none"> <li>• Control knob not pressed long enough.</li> <li>• Pilot flame not touching the thermocouple. Problem could be result of one or both of the following:                             <ul style="list-style-type: none"> <li>- Partially clogged pilot injector.</li> <li>- Low gas pressure.</li> </ul> </li> <li>• Thermocouple damaged.</li> <li>• Thermocouple connection is loose at gas control valve.</li> <li>• Gas control valve damaged.</li> </ul>	<ul style="list-style-type: none"> <li>• After pilot lights, keep control knob pressed in approx. 30 seconds.</li> <li>• Contact a qualified service person or your gas supplier.</li> <li>• Replace thermocouple.</li> <li>• Hand tight until snug then tighten 1/4 turn with a wrench.</li> <li>• Replace gas control.</li> </ul>
Burner does not light after pilot is lit	<ul style="list-style-type: none"> <li>• Burner injector clogged.</li> <li>• Low gas supply pressure.</li> </ul>	<ul style="list-style-type: none"> <li>• Clean burner injector.</li> <li>• Call your gas supplier.</li> </ul>
Burner flame goes off immediately after ignition	<ul style="list-style-type: none"> <li>• Low gas pressure</li> </ul>	<ul style="list-style-type: none"> <li>• Let the pilot flame stay lit for 10 minutes before setting variable knob to LO.</li> </ul>
Delayed ignition	<ul style="list-style-type: none"> <li>• Main burner carry over ports clogged.</li> <li>• Low gas supply pressure</li> </ul>	<ul style="list-style-type: none"> <li>• Clean main burner ports.</li> <li>• Call your gas supplier.</li> </ul>
Inadequate combustion on burner	<ul style="list-style-type: none"> <li>• Not enough air.</li> </ul>	<ul style="list-style-type: none"> <li>• Check air passageways and burners for dirt and debris, and clean with compressed air.</li> </ul>
Burner flame is low	<ul style="list-style-type: none"> <li>• Supply hose is bent or twisted</li> <li>• Blockage in burner injector</li> </ul>	<ul style="list-style-type: none"> <li>• Straighten hose and perform leak test on hose.</li> <li>• Clean or replace burner injector.</li> </ul>
Emitter glows uneven	<ul style="list-style-type: none"> <li>• Blockage in burner injector</li> <li>• Base is not on a level surface</li> <li>• Low gas pressure</li> </ul>	<ul style="list-style-type: none"> <li>• Clean or replace burner injector.</li> <li>• Place heater on a level surface.</li> <li>• Replace cylinder with a new cylinder.</li> </ul>

<u>PROBLEM</u>	<u>PROBABLE CAUSE</u>	<u>SOLUTION</u>
Slight smoke and odour during initial operation	<ul style="list-style-type: none"> <li>Residue from manufacturing processes.</li> </ul>	<ul style="list-style-type: none"> <li>Will stop after approx. 30 minutes of operation.</li> </ul>
Thick black smoke	<ul style="list-style-type: none"> <li>Blockage in burner</li> </ul>	<ul style="list-style-type: none"> <li>Turn off the heater and let it cool. Remove blockage and clean burner inside and outside.</li> </ul>
Heater produces a whistling noise when burner is lit.	<ul style="list-style-type: none"> <li>Air passageways blocked.</li> <li>Air in the gas line.</li> </ul>	<ul style="list-style-type: none"> <li>Check minimum installation clearances and air passageways for debris.</li> <li>Operate burner until the air is completely purged.</li> </ul>
Heater produces a clicking noise just after burner is lit or turned off.	<ul style="list-style-type: none"> <li>Metal expanding and contracting, respectively.</li> </ul>	<ul style="list-style-type: none"> <li>This is common with heaters. If noise is excessive, contact a qualified person.</li> </ul>
Gas odour even when control knob is in OFF position	<ul style="list-style-type: none"> <li>Gas leaks.</li> <li>Gas control defective.</li> </ul>	<ul style="list-style-type: none"> <li>Locate and correct leaks immediately.</li> <li>Replace gas control.</li> </ul>
Gas odour during combustion	<ul style="list-style-type: none"> <li>Foreign matter in gas or on burner ports.</li> <li>Heater burning vapors from paint, impurities in air.</li> <li>Gas leakage from:               <ul style="list-style-type: none"> <li>Regulator and hose connection.</li> <li>Valve and pipes connection.</li> <li>Pipes</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Check gas passageway and burner.</li> <li>Stop storing and using odour-causing products near the heater.</li> <li>Locate and correct leaks, or contact your gas supplier.</li> </ul>
Carbon build-up	<ul style="list-style-type: none"> <li>Dirt or film on reflector and flame screen</li> </ul>	<ul style="list-style-type: none"> <li>Clean reflector and flame screen.</li> </ul>



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