

## GETTING STARTED

Set the heater up on firm level ground outside the tent.

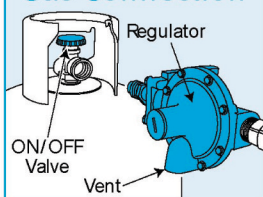
Site the heater away from areas where there may be a lot of traffic (the entrance for example). Take adequate precautions to safeguard against the heater being accidentally tipped over or moved. Ensure there will be adequate fresh air around the heater.

Fit the ducting hose by simply inserting the tongues on the end of the ducting hose (see illustration) into the slots on the side of the unit.

Now set the air outlet end inside the tent pointing at the area to be heated. The marquee fabric may be laid within the top channel of the air outlet (see illustration).

Position the remote thermostat as far away from the heater as possible and approximately 1.5 metres off the ground, then set it to the desired temperature.

### Gas Connection



You can now connect the gas supply. To do this screw the gas regulator onto the propane cylinder's valve, turning it anti-clockwise to tighten (it has a reverse thread) and tighten up with the spanner provided.

Make sure the regulator's vent is positioned so that it is pointing downward.

Open the cylinder valve and check for leaks.

### Gas Leaks

#### IF YOU SUSPECT A GAS LEAK....

Tell everyone in the vicinity to turn off or put out anything that could ignite the gas, unless this involves operating electrical switches (most generate a tiny spark).

Open doors then take all gas cylinders outside and check that their valves are closed.

Test each valve for leakage before replacing its plastic cap and contacting Heatgen.

#### IF A LOT OF GAS HAS ESCAPED....

Evacuate the area and call the Fire Brigade.

If you are satisfied that there are no leaks, close the cylinder valve.

Finally, check the heater's selector switch is set to OFF. Plug the heater into its power supply and switch the supply ON.

## BASIC TECHNIQUES

Open the cylinder valve slowly, then move the selector switch to the heat (up) position.

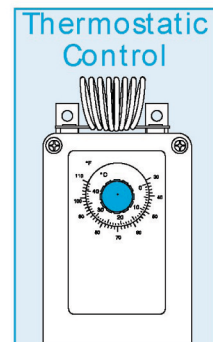
The fan will start and run for approximately 5 seconds before the gas is allowed to flow. After 5 seconds, the gas will flow and the igniter will begin to spark, igniting the gas.

If the gas fails to ignite within 10 seconds, the system will shut down as a safety precaution, (this will also occur if the unit runs out of gas).

When first set up, the heater may shut down two or three times in a row, this is quite normal as the gas hose will initially be full of air.

If the heater does shut down, simply set the selector switch to OFF then back to the heat position until the heater fires.

When the selector switch is set to heat, the heater will automatically start and stop as the thermostatic control clicks in and out.



When the heater is no longer needed, close the cylinder valve then switch the heater OFF. Disconnect the heater from its power supply.

Alternatively the heater can be used for unheated air circulation, simply move the selector switch to the vent (down) position. It is perfectly safe to operate this heater in the vent position when the gas is connected.

## EQUIPMENT CARE

Never use a heater except for its intended purpose, If it will not do what you want, assume you have the wrong equipment for the job. Contact Heatgen for advice.

Only use the heater for the purpose it was designed for, improper use may cause expensive damage and could be dangerous.

Keep the heater clean. You will find this less of a chore if you clean it regularly, rather than wait until the end of the hire period. Clean the heater with a soft brush or a dry cloth.

Handle gas bottles with care. Any protective plugs supplied must be fitted to the valve when not in use.

When not in use, store the equipment somewhere clean, dry and safe from thieves.

Remember, propane regulators have a reverse thread, turn them anti-clockwise to tighten, clockwise to undo. When not in use and to avoid damaging the thread, always fit the regulator with its protective cap.

## FINISHING OFF

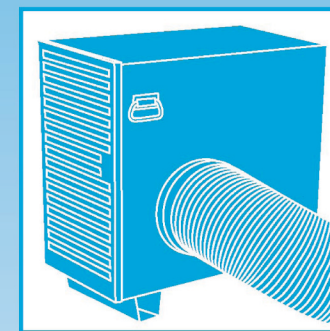
Turn OFF the gas supply at the cylinder's valve, switch the heater OFF then disconnect the gas regulator from the cylinder to blow cool air for 5 mins to cool overheat device.

Disconnect the heater from its power supply then neatly coil all hoses and cables.

Unclip the ducting hose and give the unit a final clean up ready for return.



## Operating and Safety Guide



## Ducted Air Heater

An LPG fired large capacity forced air heater with thermostatic control, ideal for heating marquees in cold weather and cooling them in the summer.

### ...any comments?

If you have any suggestions to enable us to improve the information within this guide please contact us on the number below

01787 477335

## GENERAL SAFETY

### Rules And Regulations

Please note that the use of and storage of gas cylinders is governed by specific legislation and/or regulations.

Make sure you are fully acquainted with any rules that may apply and abide by them.


If in doubt, contact Heatgen.


For advice on the safety and suitability of this equipment contact Heatgen.


There is a serious risk of personal injury if you do not follow all instructions laid down in this guide.

This equipment should be used by an able bodied, competent adult who has read and understood these instructions. Anyone with either a temporary or permanent disability, should seek expert advice before using it.

Keep children, animals and bystanders away from the heater and its outlet. Never leave them alone when the heater is in use.

 Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.

 Suitable gloves should be worn when handling this equipment.

 Gas cylinders are heavy, never attempt to lift a cylinder, full or empty, by yourself, always get help.

Ensure the area is adequately ventilated to prevent the build-up of toxic fumes and condensation. The heater requires a minimum 950 cubic meters of fresh air per hour.

This guide should be read in conjunction with Operating & Safety Guide No 545 (LPG Safety), available from Heatgen.

The heater requires a supply cylinder of 47kg, do not use a smaller cylinder.

Never use the heater if highly flammable vapours - petrol or paint thinner fumes for example - are present, nor in a dusty environment.

Keep combustible materials at a safe distance - at least 2m and never stand in front of the heater's outlet. If necessary, use a suitable fireguard.

Never place anything on top of a heater and never obstruct its air vents. Leave a 500mm gap all round to let air circulate.

Keep gas cylinders upright at ALL times, during use, transporting and when stored. Don't drop or knock them, as damaged cylinders can be dangerous.

### Safety Cut-Out

The Heatgen Air Heater is fitted with safety devices which turn it and the gas supply OFF if something goes wrong, for example, if it overheats or the flame gets blown out.

If a cutout trips, find out why and correct the problem before attempting to turn the heater ON again.

If in doubt, contact Heatgen.

### Gas Safety

Propane gas is highly flammable. It is also heavier than air, increasing the risk of explosion in the event of a leak.

ALWAYS double-check all gas supply connections for leaks (test them with an approved leak detecting fluid and look for bubbles).

ALWAYS handle gas cylinders, hoses and connectors with care.

ALWAYS store cylinders in a cool, safe place: away from heat and ignition sources and away from drains and other places where leaked gas could collect.

NEVER smoke or allow naked lights into the area while changing gas cylinders.

NEVER test for leaks with a naked light!

Make sure you know how to switch this heater OFF before you switch it ON in case you get into difficulty.

Always disconnect the heater from its power supply before adjusting it.

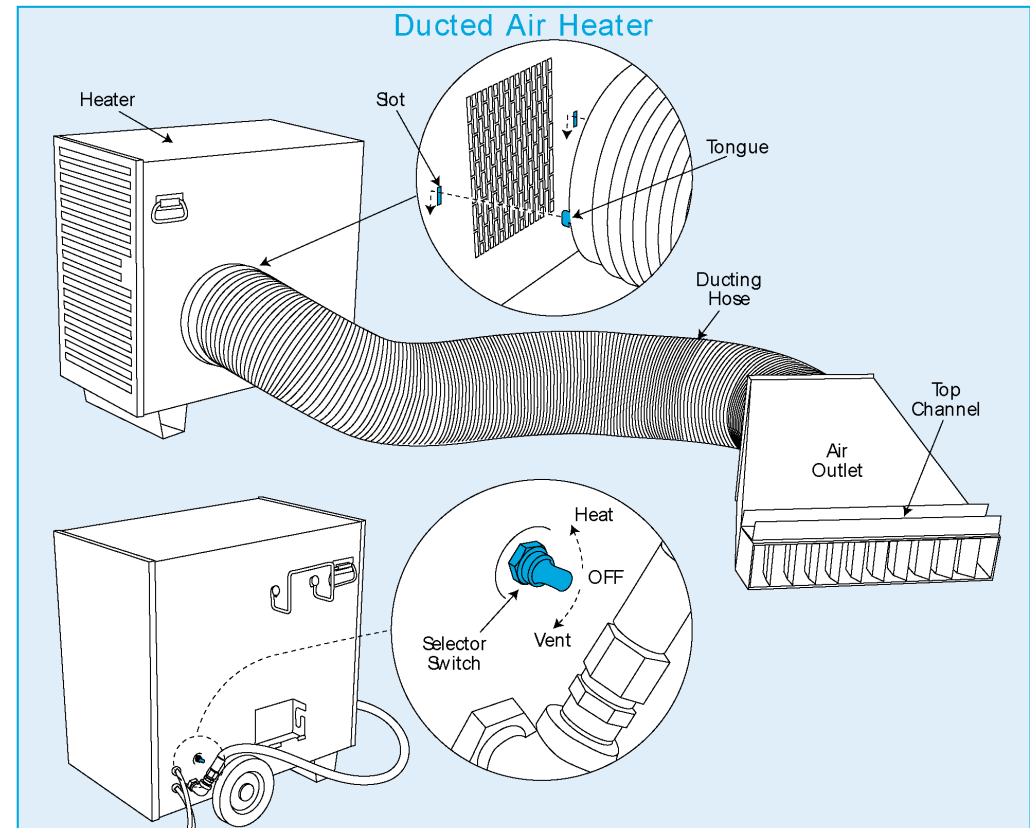
Always switch OFF and unplug the heater when not in use, leaving it to cool before handling it.

Check the condition of the heater before use. If it shows signs of damage or excessive wear, return it to Heatgen.

COSH information sheets are available from Heatgen

### ELECTRICAL SAFETY

The Heatgen Ducted Air Heater plugs into a standard 240V 13amp power socket.




If the equipment fails, or if its power supply cable or plug becomes damaged, return it. Never try to repair it yourself.

Keep cables out of harm's way, and clear of the work area.

Extension leads should be fully unwound and loosely coiled, away from the equipment. Never run them through water, over sharp edges or where they could trip someone.

Keep the heater dry. Using electrical equipment in very damp or wet conditions can be dangerous.

 To reduce the risk of electric shock, always use a suitable RCD (Residual Current-Operated Device) available from Heatgen.

Alternatively, power the equipment from a mains circuit with a built in RCD.

Ensure the heater and the power socket are switched OFF before plugging into the power supply.

### FROST WARNING

Liquid gas can cause severe 'freeze burns' so avoid skin contact by wearing gloves when making connections.

This cooling effect may also result in the formation of frost around cylinder connections. Having satisfied yourself that this is not due to a leak, you can ignore it or wipe it off with a cloth.

Never apply heat to the cylinder.

Alternatively, reduce frosting by supplying the heater from two or more cylinders connected via suitable couplings, available from Heatgen.