

PROPANE GAS SAFETY

1. Keep gas cylinders upright at all times – whether in use, in store or being moved.
2. Propane cylinders should not be kept or stored below ground level. The gas is heavier than air and will collect at the lower level if there is a leak.
3. Propane gas cylinders must not be used or stored inside a building, even when they appear to be empty.
4. If a gas leak is suspected, turn off the heater using the control tap. Put out any naked lights or other sources of ignition. Ventilate the area by opening windows, or doors.
5. Never look for a leak with a naked flame – this is extremely dangerous. Use soapy water.
6. If the cylinder is leaking, call the fire brigade and evacuate the area.
7. Do not attempt to repair any suspected leaks. Contact the hire company immediately.
8. In some conditions, frost may form on a gas cylinder that is in use. This indicates that the cylinder is not big enough to provide the flow of gas being used. Contact the hire company.
9. Do not try to warm the cylinder to remove the frost. Take care when handling a frosty cylinder as the cold can cause 'frost burns'.
10. Handle cylinders carefully when moving them. Do not drop them off vehicles – get an assistant to help lower them safely.
11. Keep unused and empty cylinders away from heat at all times.

Keep this leaflet safe as it may be required for reference at a future date



Hæ
HIRE ASSOCIATION EUROPE

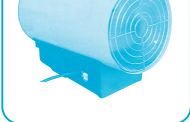
Hire Association Europe
2450 Regents Court
The Crescent
Birmingham Business Park
Solihull B37 7YF

Telephone: 44 (0) 121 380 4600
Fax: 44 (0) 121 333 4109
Email: mail@hae.org.uk
website: www.hae.org.uk

The rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific risk assessment.

It is important to read all of this leaflet

BEFORE you use the Forced Air Heater

1. Propane gas is highly flammable and must always be used with great care. Cylinders must not be stored in occupied domestic premises.
 2. Electricity can be hazardous and must always be used with great care.
 3. This heater is designed to provide a flow of heated air for general heating of farms, warehouses, factories and other large buildings. It can also be used to circulate air as a means of cooling and ventilation.
 4. The heater must not be used where there is a fire risk from combustible materials, or flammable liquids and gases. Make sure there is no paper or other light, flammable materials that can get drawn towards the heater by the air flow.
 5. Heated air and direct radiant heat from the heater can damage nearby objects as well as presenting a fire risk. Make sure that there are no objects near enough to the heater to get hot.
 6. Plan the use of the heater so that it can always be used safely. Do not leave it unattended if there is any risk of fire or burns to persons.
 7. This heater must not be lit, moved or adjusted, and the gas cylinder must not be changed, by minors, or anyone under the influence of drugs or alcohol.
 8. This heater is designed for operation by an able bodied adult. Anyone with either a temporary or permanent disability must seek expert advice before using it.
 9. A residual current device (rcd) will be needed for 230v heaters.
- 



Every effort has been made by HAE/EHA to ensure that the information given in this document and supporting material is accurate and not misleading. HAE/EHA cannot accept responsibility for any loss or liability perceived to have arisen from the use of any such document/material. Only Acts of Parliament and Statutory Instruments have the force of law and only the courts can authoritatively interpret the law.

Any unauthorised reproduction – manually or electronically – is STRICTLY prohibited

1. Turn the heater off by turning the handwheel clockwise to the Off position.
2. Wait until the flame has gone out completely. If the flame does not go out, call the hire company immediately.
3. With the flame out, allow the heater to turn on for only a few minutes in order to cool down.
4. Make sure that there are no naked flames nearby, and that the room is well ventilated.
5. Switch the fan off. Unscrew the regulator connection union using the correct spanner.
6. Put the regulator assembly to one side, taking care not to damage the hose and union. This union has a left hand thread.
7. Check that the regulator assembly is not damaged.
8. Check that the valve connection on the new cylinder is different to that of the one on the old cylinder, and that the threads are unchanged.
9. Check that the valve connection on the new cylinder, and contact the hire company. This could be very dangerous. Refit the old cylinder, and contact the hire company.
10. If the valve connections are the same, move the empty cylinder to a safe location. Position the new one to the side of the heater where it will be clear if the heat, but without straining the gas hose. Remember to take care – the new cylinder will be heavier than the empty one.
11. Fit to the empty cylinder any plastic protective plug kept from the new cylinder.
12. Check that the threaded connection on the regulator is clean and undamaged. Carefully thread the connector by hand – it has a left hand thread! When the connector is threaded properly, do it up hand tight, then tighten fully using the correct spanner.
13. If it is suspected that the cylinder connection is not gas tight, do not try to tight the heater. It is not gas tight. Contact the hire company immediately.
14. If the heater does not work properly, do not try to repair or adjust it. Contact the hire company.

CHANGING THE GAS CYLINDER

1. Check that there is nothing in front of the heater when switching it. Do not lean over the heater when starting it.
 2. Ensure the fan switch on the heater is switched to off. Plug the heater into the appropriate electrical supply.
 3. Switch the fan on, and let it run up to speed.
 4. Turn the handwheel on the gas cylinder valve anti-clockwise to the ON position.
 5. Press and hold the pilot valve button, and then push the ignition button until it clicks.
 6. Continue to hold the pilot valve button. This allows the safety cut-out device to come into operation.
 7. After about 30 seconds, when the safety cut-out device has heated up, you can release the pilot valve button.
 8. If the burner has not lit, wait for 1 minute before trying again from instruction 5 above.
- ### STOPPING THE HEATER
1. Turn the handwheel on the gas cylinder valve clockwise to the OFF position.
 2. Allow the heater to run on fan only for a few minutes until it has cooled down.
 3. Switch the fan off, and unplug.
- ### USE AS A VENTILATOR
- All the gas cylinders are not required, make sure all valves are turned off and the cylinders are dry and safe
5. The extension cable connections should be overhead and could catch fire.
 6. over it. I should be fully unrolled or it will trap and places where vehicles might get damaged.
 7. always avoiding liquids, sharp edges, etc.
 8. The extension cord should be laid out Plug it directly into the red.
 9. Plug it no longer than 50 metres (150 feet).
 10. Use a 13 amp extension cable if a suitable one is available.
 11. any special instructions, only a suitable rated company. If the hire company have not given special instructions given by the hire company, it is necessary, follow any
12. If a ventilation cable is necessary, follow any special instructions given by the hire company. If the hire company have not given special instructions, only a suitable rated cable should be used.- 13. Use a 13 amp extension cable if a suitable one is available.
- 14. Plug it no longer than 50 metres (150 feet).
- 15. The extension cable connections should be overhead and could catch fire.
- 16. over it. I should be fully unrolled or it will trap and places where vehicles might get damaged.
- 17. always avoiding liquids, sharp edges, etc.
- 18. The extension cord should be laid out Plug it directly into the red.
- 19. Plug it no longer than 50 metres (150 feet).
- 20. Use a 13 amp extension cable if a suitable one is available.
- 21. any special instructions, only a suitable rated company. If the hire company have not given special instructions given by the hire company, it is necessary, follow any

Before Starting Work...

Useful Reference Points • www.hae.org.uk/businessguard

FORCED AIR HEATER

- DO NOT AREA**
1. Do not use this heater where there is a fire risk from combustible materials, or flammable liquids and gases.
2. It must be ensured that the heater is only used in spaces where there is an adequate supply of ventilation or fresh air. If the heater does not get a good supply of fresh air, the gas will not burn properly. Fumes from this incomplete combustion are very dangerous.
3. Ventilation in the space to be heated will also reduce the amount of condensation produced by the heater.
4. Because of the heat and air blast from this heater it is not suitable for use in occupied domestic premises or small rooms.
5. If the heater is to be left unattended in an area where there may be children or infants persons barriers will need to be put up to keep people at a safe distance.
- FORCED AIR HEATER**
1. Check the heater, including mains cables, gas hoses and cylinders. If anything is found to be damaged, do not use the heater, contact the hire company.
2. Check that the gas regulator on the machine connection has a left hand thread. Improvised connections should not be forced or clothes or other material must not be placed on the heater or directly in front of it.
3. Ensure there is no burnable material such as fabric or paper near the heater where it may get hot. The heater is best positioned away from the walls, facing into the centre of space to be heated.
4. The air blast will disturb papers and other light materials. Make sure there is nothing nearby that could get drawn towards the heater.
5. Make sure the back of the heater is clear and that no loose items will block the fan inlet.
6. Put the heater in the position that it is intended to be used before connecting the gas cylinder. Check there is no gas cylinder in the heated airstream.
7. If the heater is to be left unattended in an area where there may be children or infants persons barriers will need to be kept up to keep people at a safe distance.
8. If the heater is intended to be left on for long periods at high output, two or more 47Kg propane cylinders should be connected.
9. Interconnected.
- Before Start**
- ELECTRICAL SAFETY**
- The heater will only operate on one voltage; it will be 110V or 230V. 110V machines will give a yellow industrial plug fitted, 230V machines will have either a normal square pin plug fitted, or a blue industrial plug. Read the instructions below for the heater.
- 1. 10 VOLT MACHINES (Yellow Plug)**
1. If a portable transformer is being used, plug the transformer directly into the 230 volt socket. Do not use any 230 volt extension cable.
2. If an extension cable is necessary, follow any special instructions given by the hire company. If the hire company have not given any special instructions, only a suitably rated heavy duty 110V extension cable should be used, no longer than 50 metres (160 feet). The extension cable must only be used between the transformer and the machine.
3. The extension cable should be laid out carefully avoiding liquids, sharp edges, doorways or windows where it might get tripped, and places where vehicles might run over it. It should be fully unrolled or it will overheat and could catch fire.
4. The extension cable connections should be dry and safe.
- 230 VOLT MACHINES (Square Pin or Blue Plug)**
1. Use a residual current device (rcd) plugged directly into the 230V socket. Plug the machine into the rcd. This will help to protect against electric shock if the cable or machine gets damaged.
2. Use the "TEST" button to check that the rcd is working each time it is used. Reset the rcd if the rcd is found to be faulty.
3. Use the "ON" button to start the heater. The heater will only operate on one voltage; it will be 110V or 230V. 110V machines will give a yellow industrial plug fitted, 230V machines will have either a normal square pin plug fitted, or a blue industrial plug. Read the instructions below for the heater.
- 1. 10 VOLT MACHINES (Yellow Plug)**
1. If a portable transformer is being used, plug the transformer directly into the 230 volt socket. Do not use any 230 volt extension cable.
2. If an extension cable is necessary, follow any special instructions given by the hire company. If the hire company have not given any special instructions, only a suitably rated heavy duty 110V extension cable should be used, no longer than 50 metres (160 feet). The extension cable must only be used between the transformer and the machine.
3. The extension cable should be laid out carefully avoiding liquids, sharp edges, doorways or windows where it might get tripped, and places where vehicles might run over it. It should be fully unrolled or it will overheat and could catch fire.
4. The extension cable connections should be dry and safe.
- 230 VOLT MACHINES (Square Pin or Blue Plug)**
1. Use a residual current device (rcd) plugged directly into the 230V socket. Plug the machine into the rcd. This will help to protect against electric shock if the cable or machine gets damaged.
2. Use the "TEST" button to check that the rcd is working each time it is used. Reset the rcd if the rcd is found to be faulty.
3. Use the "ON" button to start the heater. The heater will only operate on one voltage; it will be 110V or 230V. 110V machines will give a yellow industrial plug fitted, 230V machines will have either a normal square pin plug fitted, or a blue industrial plug. Read the instructions below for the heater.
- 1. 10 VOLT MACHINES (Yellow Plug)**
1. If a portable transformer is being used, plug the transformer directly into the 230 volt socket. Do not use any 230 volt extension cable.
2. If an extension cable is necessary, follow any special instructions given by the hire company. If the hire company have not given any special instructions, only a suitably rated heavy duty 110V extension cable should be used, no longer than 50 metres (160 feet). The extension cable must only be used between the transformer and the machine.
3. The extension cable should be laid out carefully avoiding liquids, sharp edges, doorways or windows where it might get tripped, and places where vehicles might run over it. It should be fully unrolled or it will overheat and could catch fire.
4. The extension cable connections should be dry and safe.
- 230 VOLT MACHINES (Square Pin or Blue Plug)**
1. Use a residual current device (rcd) plugged directly into the 230V socket. Plug the machine into the rcd. This will help to protect against electric shock if the cable or machine gets damaged.
2. Use the "TEST" button to check that the rcd is working each time it is used. Reset the rcd if the rcd is found to be faulty.
3. Use the "ON" button to start the heater. The heater will only operate on one voltage; it will be 110V or 230V. 110V machines will give a yellow industrial plug fitted, 230V machines will have either a normal square pin plug fitted, or a blue industrial plug. Read the instructions below for the heater.
- 1. 10 VOLT MACHINES (Yellow Plug)**
1. If a portable transformer is being used, plug the transformer directly into the 230 volt socket. Do not use any 230 volt extension cable.
2. If an extension cable is necessary, follow any special instructions given by the hire company. If the hire company have not given any special instructions, only a suitably rated heavy duty 110V extension cable should be used, no longer than 50 metres (160 feet). The extension cable must only be used between the transformer and the machine.
3. The extension cable should be laid out carefully avoiding liquids, sharp edges, doorways or windows where it might get tripped, and places where vehicles might run over it. It should be fully unrolled or it will overheat and could catch fire.
4. The extension cable connections should be dry and safe.
- 230 VOLT MACHINES (Square Pin or Blue Plug)**
1. Use a residual current device (rcd) plugged directly into the 230V socket. Plug the machine into the rcd. This will help to protect against electric shock if the cable or machine gets damaged.
2. Use the "TEST" button to check that the rcd is working each time it is used. Reset the rcd if the rcd is found to be faulty.
3. Use the "ON" button to start the heater. The heater will only operate on one voltage; it will be 110V or 230V. 110V machines will give a yellow industrial plug fitted, 230V machines will have either a normal square pin plug fitted, or a blue industrial plug. Read the instructions below for the heater.
- 1. 10 VOLT MACHINES (Yellow Plug)**
1. If a portable transformer is being used, plug the transformer directly into the 230 volt socket. Do not use any 230 volt extension cable.
2. If an extension cable is necessary, follow any special instructions given by the hire company. If the hire company have not given any special instructions, only a suitably rated heavy duty 110V extension cable should be used, no longer than 50 metres (160 feet). The extension cable must only be used between the transformer and the machine.
3. The extension cable should be laid out carefully avoiding liquids, sharp edges, doorways or windows where it might get tripped, and places where vehicles might run over it. It should be fully unrolled or it will overheat and could catch fire.
4. The extension cable connections should be dry and safe.
- 230 VOLT MACHINES (Square Pin or Blue Plug)**
1. Use a residual current device (rcd) plugged directly into the 230V socket. Plug the machine into the rcd. This will help to protect against electric shock if the cable or machine gets damaged.
2. Use the "TEST" button to check that the rcd is working each time it is used. Reset the rcd if the rcd is found to be faulty.
3. Use the "ON" button to start the heater. The heater will only operate on one voltage; it will be 110V or 230V. 110V machines will give a yellow industrial plug fitted, 230V machines will have either a normal square pin plug fitted, or a blue industrial plug. Read the instructions below for the heater.
- 1. 10 VOLT MACHINES (Yellow Plug)**
1. If a portable transformer is being used, plug the transformer directly into the 230 volt socket. Do not use any 230 volt extension cable.
2. If an extension cable is necessary, follow any special instructions given by the hire company. If the hire company have not given any special instructions, only a suitably rated heavy duty 110V extension cable should be used, no longer than 50 metres (160 feet). The extension cable must only be used between the transformer and the machine.
3. The extension cable should be laid out carefully avoiding liquids, sharp edges, doorways or windows where it might get tripped, and places where vehicles might run over it. It should be fully unrolled or it will overheat and could catch fire.
4. The extension cable connections should be dry and safe.
- 230 VOLT MACHINES (Square Pin or Blue Plug)**
1. Use a residual current device (rcd) plugged directly into the 230V socket. Plug the machine into the rcd. This will help to protect against electric shock if the cable or machine gets damaged.
2. Use the "TEST" button to check that the rcd is working each time it is used. Reset the rcd if the rcd is found to be faulty.
3. Use the "ON" button to start the heater. The heater will only operate on one voltage; it will be 110V or 230V. 110V machines will give a yellow industrial plug fitted, 230V machines will have either a normal square pin plug fitted, or a blue industrial plug. Read the instructions below for the heater.
- 1. 10 VOLT MACHINES (Yellow Plug)**
1. If a portable transformer is being used, plug the transformer directly into the 230 volt socket. Do not use any 230 volt extension cable.
2. If an extension cable is necessary, follow any special instructions given by the hire company. If the hire company have not given any special instructions, only a suitably rated heavy duty 110V extension cable should be used, no longer than 50 metres (160 feet). The extension cable must only be used between the transformer and the machine.
3. The extension cable should be laid out carefully avoiding liquids, sharp edges, doorways or windows where it might get tripped, and places where vehicles might run over it. It should be fully unrolled or it will overheat and could catch fire.
4. The extension cable connections should be dry and safe.
- 230 VOLT MACHINES (Square Pin or Blue Plug)**
1. Use a residual current device (rcd) plugged directly into the 230V socket. Plug the machine into the rcd. This will help to protect against electric shock if the cable or machine gets damaged.
2. Use the "TEST" button to check that the rcd is working each time it is used. Reset the rcd if the rcd is found to be faulty.
3. Use the "ON" button to start the heater. The heater will only operate on one voltage; it will be 110V or 230V. 110V machines will give a yellow industrial plug fitted, 230V machines will have either a normal square pin plug fitted, or a blue industrial plug. Read the instructions below for the heater.
- 1. 10 VOLT MACHINES (Yellow Plug)**
1. If a portable transformer is being used, plug the transformer directly into the 230 volt socket. Do not use any 230 volt extension cable.
2. If an extension cable is necessary, follow any special instructions given by the hire company. If the hire company have not given any special instructions, only a suitably rated heavy duty 110V extension cable should be used, no longer than 50 metres (160 feet). The extension cable must only be used between the transformer and the machine.
3. The extension cable should be laid out carefully avoiding liquids, sharp edges, doorways or windows where it might get tripped, and places where vehicles might run over it. It should be fully unrolled or it will overheat and could catch fire.
4. The extension cable connections should be dry and safe.
- 230 VOLT MACHINES (Square Pin or Blue Plug)**
1. Use a residual current device (rcd) plugged directly into the 230V socket. Plug the machine into the rcd. This will help to protect against electric shock if the cable or machine gets damaged.
2. Use the "TEST" button to check that the rcd is working each time it is used. Reset the rcd if the rcd is found to be faulty.
3. Use the "ON" button to start the heater. The heater will only operate on one voltage; it will be 110V or 230V. 110V machines will give a yellow industrial plug fitted, 230V machines will have either a normal square pin plug fitted, or a blue industrial plug. Read the instructions below for the heater.
- 1. 10 VOLT MACHINES (Yellow Plug)**
1. If a portable transformer is being used, plug the transformer directly into the 230 volt socket. Do not use any 230 volt extension cable.
2. If an extension cable is necessary, follow any special instructions given by the hire company. If the hire company have not given any special instructions, only a suitably rated heavy duty 110V extension cable should be used, no longer than 50 metres (160 feet). The extension cable must only be used between the transformer and the machine.
3. The extension cable should be laid out carefully avoiding liquids, sharp edges, doorways or windows where it might get tripped, and places where vehicles might run over it. It should be fully unrolled or it will overheat and could catch fire.

WORK AREA



Hire Association Europe

2450 Regents Court
The Crescent
Birmingham Business Park
Sollihull B37 7YE

Telephone: 44 (0) 121 380 4500
Fax: 44 (0) 121 333 4109
Email: mail@hae.org.uk
website: www.hae.org.uk

©Copyright Hire Association Europe April 2011