



CHANGING THE GAS CYLINDER

1. Turn the heater off by turning the handwheel on the cylinder valve fully 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 run on fan only for 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 connecting union using the correct spanner. This union has a left hand thread.
6. Put the regulator assembly to one side, taking care not to damage the hose and union assembly.
7. Take any plastic protective plug out of the valve on the new cylinder and save it for refitting to the old cylinder.
8. Check that the valve connection on the new cylinder is the same as the one on the old cylinder, and that the threads are undamaged. If it is different, do not try to fit the new cylinder. This could be very dangerous. Refit the old cylinder, and contact the hire company.
9. 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 of the heat, but without straining the gas hose. Remember to take care – the new cylinder will be heavier than the empty one.
10. Fit to the empty cylinder any plastic protective plug kept from the new cylinder.
11. Check that the handwheel connection on the regulator is clean and undamaged. Carefully fit the connector by hand – it has a left hand thread. When the connector is threaded properly, do it up had tight, then tighten fully using the correct spanner.
12. If you suspect that the cylinder connection is not gas tight, do not try to light the heater.
13. Check that the valve handwheel is turned fully clockwise to the OFF position. Contact the hire company immediately.
14. If your heater does not work properly do not try to repair or adjust it. Contact the hire company.
15. You may want to read this leaflet again, please keep it until you have finished using the heater.

Using the Gas Heater

1. Wear your protective equipment including ear defenders and goggles.
2. Always grip the floor plane correctly with two hands while working.
3. Make sure the drum is running at full speed and then lower it carefully onto the surface.
4. Take care not to damage any finished floor surfaces by operating the cutters while moving to your work area and positioning the floor pane.
5. If the machine starts to labour, reduce the depth of cut and make two passes.
6. While planning the surface, keep a lookout for any obstructions in your path. Stop the floor plane and clear them out of the way.
7. You must stop the engine if you need to change the cutters or make any adjustments.
8. Watch out for signs that vibration from the work may be affecting your hands. If your fingers start to tingle or feel numb, take a short break from work. Exercise your fingers to encourage blood circulation.
9. To help prevent vibration affecting your hands, operate the roller for shorter periods. Keep your hands warm – wearing gloves may help do this.
10. Stop the engine if leaving the machine unattended.
11. If your equipment does not work properly do not attempt to repair it. Contact the hire company.

Please keep this leaflet safely as it may be required for future reference



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Andrews Gas Heater

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 this entire leaflet BEFORE using the Gas Heater

1. Plan your work and think ahead to make sure you will always be working safely.
2. Propane gas is highly flammable and must always be used with great care. Cylinders must not be stored in occupied domestic premises.
3. Electricity can be hazardous and must always be used with great care.
4. 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.
5. The heater must not be used where there is a fire risk from combustible materials or flammable liquids and gases. Make sure there is not paper or other materials, or flammable liquids and gases. Make sure there is no paper or other light, flammable materials that can be drawn towards the heater by the air flow.
6. Heated air and direct radiant heat from the heater can damage nearby objects as well as presenting a fire risk. Make sure there are no objects near enough to the heater to get hot.
7. This heater must not be lit, moved or adjusted, and the gas cylinder must not be changed, by minors, or by anyone under the influence of drugs or alcohol.
8. This heater is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it.
9. You will need a residual current device (rcd) for 230v heaters.



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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

1. The gas cylinders are not required, make sure all valves are turned off and the cylinders stored safely away.
2. Ensure the fan switch on the heater is switched to fan. Plug the heater into the appropriate electrical supply.
3. Switch the fan on.
4. If the flame goes out the pilot valve will automatically shut off the gas supply.
5. If the thermostat overheats for any reason, the gas supply will be interrupted.

SAFETY

1. Wear your protective equipment including ear defenders and goggles.
2. Always grip the floor plane correctly with two hands while working.
3. Make sure the drum is running at full speed and then lower it carefully onto the surface.
4. Take care not to damage any finished floor surfaces by operating the cutters while moving to your work area and positioning the floor pane.
5. If the machine starts to labour, reduce the depth of cut and make two passes.
6. While planning the surface, keep a lookout for any obstructions in your path. Stop the floor plane and clear them out of the way.
7. You must stop the engine if you need to change the cutters or make any adjustments.
8. Watch out for signs that vibration from the work may be affecting your hands. If your fingers start to tingle or feel numb, take a short break from work. Exercise your fingers to encourage blood circulation.
9. To help prevent vibration affecting your hands, operate the roller for shorter periods. Keep your hands warm – wearing gloves may help do this.
10. Stop the engine if leaving the machine unattended.
11. If your equipment does not work properly do not attempt to repair it. Contact the hire company.

LIGHTING THE HEATER

1. Check that there is nothing in front of the heater that could catch fire. Do not lean over the heater when starting it.
2. Ensure the fan switch on the heater is switched to fan. 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. Plug the heater into the pilot valve cut-out device to come into operation.
6. After about 30 seconds, when the safety cut-out device has heated up, you can release the pilot valve button.
7. If the burner has not lit, wait for 1 minute before trying again from instruction 5 above.

230 VOLT EQUIPMENT (SQUARE PIN OR BLUE PLUG)

1. Use a residual current device (rcd) plugged directly into the 230 volt socket.
2. Plug your machine into the rcd.
3. This will help to protect you against electric shock.
4. Make sure that any extension cable connections are dry and safe.
5. Lay the extension cable out carefully avoiding liquids, sharp edges, doorways or windows where it might be trapped, and places where vehicles might run over it. Unroll it fully or it will overheat and could catch fire.
6. Make sure that any extension cable connections are dry and safe.
7. If you need an extension cable, follow the instructions supplied with it.
8. Use the "TEST" button to check that the rcd is working each time you use it.
9. Reset the rcd according to the instructions supplied with it.
10. If you need an extension cable, follow the instructions supplied with it.

110 VOLT EQUIPMENT (YELLOW PLUGS)

1. If you are using a portable transformer, plug the transformer directly into the 230 volt socket. Do not use any 230v extension cables.
2. If you need to use an extension cable, follow any special instructions given by the hire company. If the hire company have not given any special instructions, you should only use a suitably rated heavy duty one, not longer than 50 metres (160 feet). You must only use an extension cable between the transformer and the machine.
3. Lay the extension cable out carefully avoiding liquids, sharp edges, doorways or windows where it might be trapped, and places where vehicles might run over it. Unroll it fully or it will overheat and could catch fire.
4. Make sure that any extension cable connections are dry and safe.
5. Lay the extension cable out carefully avoiding liquids, sharp edges, doorways or windows where it might be trapped, and places where vehicles might run over it. Unroll it fully or it will overheat and could catch fire.
6. Make sure that any extension cable connections are dry and safe.
7. If you need an extension cable, follow the instructions supplied with it.
8. Use the "TEST" button to check that the rcd is working each time you use it.
9. Reset the rcd according to the instructions supplied with it.
10. If you need an extension cable, follow the instructions supplied with it.

ELECTRICAL SAFETY

1. Your heater will only operate on one voltage. It will be 110v or 230v. 110v machines will have a yellow industrial plug fitted. 230v machines will have a blue industrial plug fitted. Read the instructions below for your heater.
2. If you are using a portable transformer, plug the transformer directly into the 230 volt socket. Do not use any 230v extension cables.
3. If you need to use an extension cable, follow any special instructions given by the hire company. If the hire company have not given any special instructions, you should only use a suitably rated heavy duty one, not longer than 50 metres (160 feet). You must only use an extension cable between the transformer and the machine.
4. Lay the extension cable out carefully avoiding liquids, sharp edges, doorways or windows where it might be trapped, and places where vehicles might run over it. Unroll it fully or it will overheat and could catch fire.
5. Make sure that any extension cable connections are dry and safe.
6. Make sure that any extension cable connections are dry and safe.
7. If you need an extension cable, follow the instructions supplied with it.
8. Use the "TEST" button to check that the rcd is working each time you use it.
9. Reset the rcd according to the instructions supplied with it.
10. If you need an extension cable, follow the instructions supplied with it.

BEFORE USING THE HEATER

1. Do not use this heater where there is a fire risk from combustible materials, or flammable liquids and gases.
2. You must make sure that the heater is only used in spaces where there is a supply of fresh air, the gas will not burn properly.
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 is no gas cylinder, check there is no gas in the heater in the heated air stream.
6. If the heater is to be left unattended in an area where there is no gas cylinder, check there is no gas in the heater in the heated air stream.
7. Put the heater in the position that you intend to use it before you connect the gas cylinder.
8. If the heater is to be left unattended in an area where there is no gas cylinder, check there is no gas in the heater in the heated air stream.
9. If you intend to leave the heater on for long periods at high output you should instruct persons you will need to put barriers up to keep people at a safe distance.
10. Make sure that the heater is clear of the heater in the heated air stream.
11. Make sure that the heater is clear of the heater in the heated air stream.

ANDREWS GAS HEATER

1. Check your heater, including mains gas hoses and cylinders. If anything is found damaged, do not use the heater: contact the hire company.
2. Check that the gas regulator on your heater matches the valve on the cylinder.
3. Do not try to force connections or remove them.
4. Make sure there is no burnable material such as fabric or paper near the heater positioned away from walls, facing into the centre of the space to be heated.
5. The air blast will disturb papers and other light materials. Make sure there is nothing nearby that could get drawn towards the heater.
6. Make sure the back of the heater is clear of the heater in the heated air stream.
7. Put the heater in the position that you intend to use it before you connect the gas cylinder.
8. If the heater is to be left unattended in an area where there is no gas cylinder, check there is no gas in the heater in the heated air stream.
9. If you intend to leave the heater on for long periods at high output you should instruct persons you will need to put barriers up to keep people at a safe distance.
10. Make sure that the heater is clear of the heater in the heated air stream.
11. Make sure that the heater is clear of the heater in the heated air stream.

PROANE GAS SAFETY

1. Keep gas cylinders upright at all times – whether in use, in store or being moved. 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.
2. Propane gas cylinders must not be used if they appear to be empty.
3. If you suspect that there is a gas leak, 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.
4. Never look for a leak with a naked flame – this is always extremely dangerous. Use soapy water.
5. If the cylinder is leaking, call the fire brigade and evacuate the area.
6. Do not attempt to repair any suspected leaks. Contact the hire company immediately.
7. 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 that you are using. Contact the hire company.
8. The frost may get hot. The heater is best positioned away from walls, facing into the centre of the space to be heated.
9. The air blast will disturb papers and other light materials. Make sure there is nothing nearby that could get drawn towards the heater.
10. Make sure the back of the heater is clear of the heater in the heated air stream.
11. Make sure that the heater is clear of the heater in the heated air stream.