



RADIANT HEATER

**SAFETY INSTRUCTIONS
(KEEP IN A SAFE PLACE)**

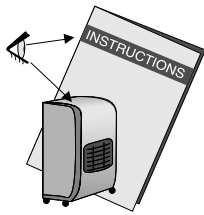
SPARE COPIES OF THIS LEAFLET CAN BE OBTAINED FROM YOUR DEALER

U.K. AGENT:

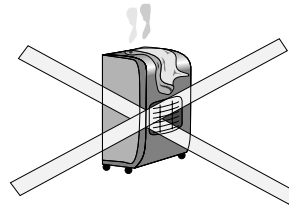
De'Longhi Ltd.

15/16 Bridle Close - Stewarts Road
Finedon Industrial Estate
Wellingborough
Ph 0933 442040

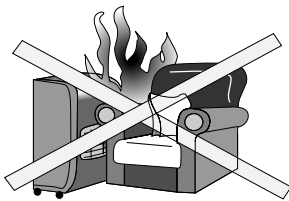
**Heater safety instruction. (Keep in a safe place).
Spare copies of this leaflet can be obtained from your dealer.**



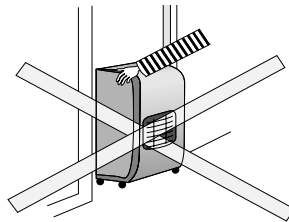
- 1 Always use heater in accordance with instructions supplied with each heater. Keep instructions in a safe place.



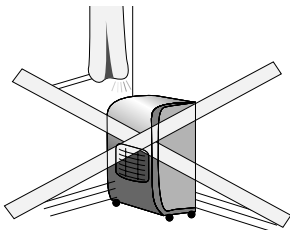
- 2 Do not place clothes or other materials on the heater, as apart from the danger of fire their presence could affect the efficient working of the appliance.



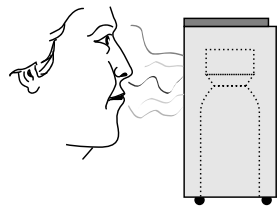
- 3 Do not position heater close to chairs and fabrics.



- 4 Do not move heater from room to room when it is lit.



- 5 Do not position heater alongside a wall or near curtains, etc. Always face heater towards centre of room. Special care should be taken if the heater is on a surface where it can move or twist on its wheels or castors if knocked by a child or dog, etc.



6 A LEAK WILL SMELL

If a leak is suspected, turn the gas off at cylinder. Do not disconnect the regulator. Extinguish all naked lights. Check all connections. Slowly turn the gas on and brush the connections with soapy water or liquid detergent - a gas leak will form bubbles. If a leak is found turn the gas off and inform your Dealer. DO NOT use the heater again until it has been inspected by your Dealer. If the cylinder valve appears to be leaking when turned off, refit the Black Branch Cap or Orange Valve Cap.

- This appliance MUST NOT be used in basements, high rise flats, bathrooms or bedrooms and in rooms having volume less than 15m³ (30m³ in living rooms) for three burner models, 18m³ (36m³ in living rooms) for two burner models.
- Be sure installation is complying to local standard.
- Do not install the appliance in a room which might contain gas, oil or sulphur, or near sources of heat.
- The appliance should not be used at altitudes exceeding 1500 m. as the analyzer may be triggered off causing the appliance to switch off unexpectedly.

Ventilation

Use only in a well ventilated room (see page 4 of these instructions, where applicable).

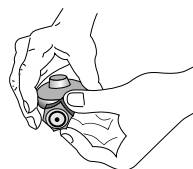
Do not change cylinders in the presence of naked lights.

SCREW ON REGULATOR

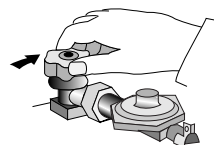
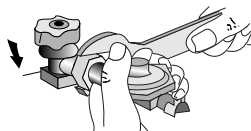
Gas Bottle

Gas Bottle with 15 kg of maximum capacity can be installed. Changing of gas bottle must not be carried out in the presence of a naked flame. Use the gas bottle always in upright position. If a screw on regulator is used ensure that the regulator washer is present and in good condition - replace if any doubt. To place the bottle in position, remove the rear panel which faces the inside during transport, by unfastening the screws; then put the bottle in position and replace the panel. Do not turn the bottle upside down to use completely its content.

1. Connecting cylinder and turning the gas on

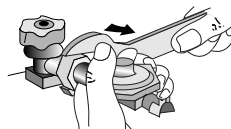
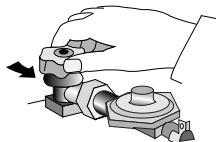


- a Make sure that the black plastic cap is screwed onto outlet of full cylinder. Ensure valve operates freely by turning anticlockwise to open and clockwise to close. Firmly close valve by turning handwheel clockwise. Remove black plastic cap from valve outlet and store in a safe place for future use.
- b Make sure black neoprene washer is in place on the regulator inlet. Regularly examine, and if unduly compressed or damaged, replace. Do not replace with red branch cap washer.



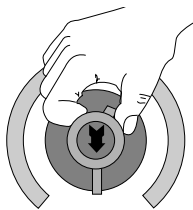
- c Support regulator, screw union nut onto cylinder valve by turning nut anti-clockwise (left-hand thread). Tighten just over hand tight using Calor Spanner. After fitting the regulator it may have assumed a position out of the horizontal. This is not important. Do not attempt to twist regulator.
- d Place cylinder in cabinet so that the cylinder valve is facing into the compartment. Open cylinder valve by turning handwheel anticlockwise. Make sure that all connections are gas tight, by brushing with soapy water or liquid detergent (a gas leak will form bubbles). Now refer to the lighting instructions on the heater.

2. Turning off and disconnecting the cylinder

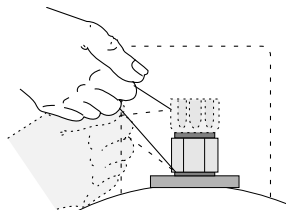


- a Close cylinder valve by turning handwheel clockwise. Check that the heating elements and pilot are out.
- b Open back the appliance, remove cylinder and place close to heater (do not strain hose). Support regulator, use a Calor Spanner to disconnect regulator/ cylinder valve union by turning nut **clockwise** (left-hand thread). Care must be taken to ensure that the outlet connection on the regulator is not damaged or strained. Screw black plastic cap onto valve outlet. Place empty cylinder in a safe place.

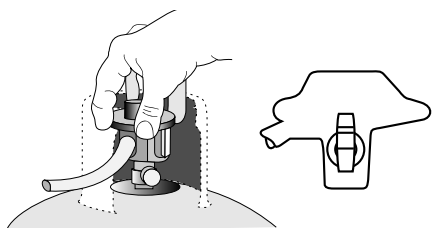
Where the screw on regulator is used in conjunction with a switch-on adaptor refer to instructions supplied with adaptor.

MODEL NO. 182H SWITCH ON REGULATOR (Suitable for Calor Switch-on 21 mm Gas Bottle)**1. Connecting the cylinder**

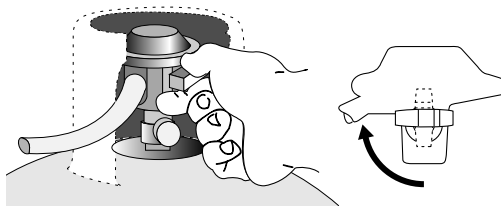
- a Rotate the plastic cap on the cylinder valve until the arrow points out through the gap in the valve shroud.



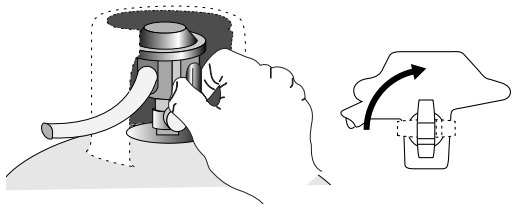
- b Pull the lanyard out, then upwards. The cap will lift off the valve. Do not use tools. Leave the cap hanging down from the valve while the cylinder is in use.



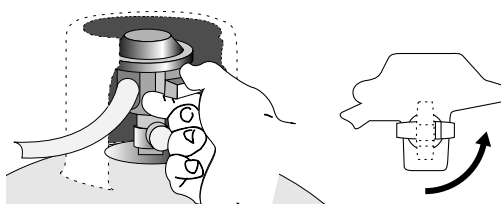
- c Ensure that the point of the switch is pointing down. Place the regulator down over the cylinder valve.



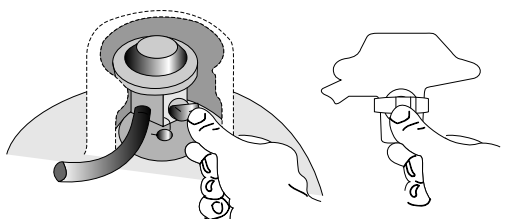
- d Turn the switch clockwise so that it points to the left (the OFF position), the regulator is now secured gas-tight to the valve, which is still closed OFF. There will be a "click" into the lock-on position.

2. Turning the gas on and off

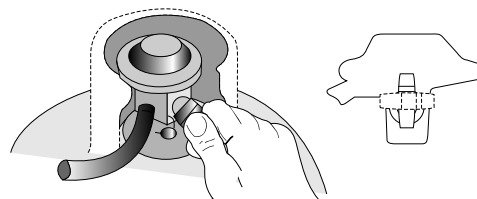
- a To turn the gas on, turn the switch clockwise so that it points upwards. The cylinder valve is now open and the gas is on.



- b Turn the switch anti-clockwise to the left and the gas is off. Do not touch the centre button.

3. Disconnecting the cylinder

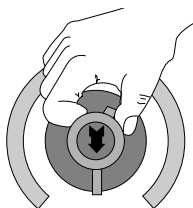
- There are 2 steps in disconnecting the regulator
a depress the centre button of the black switch.



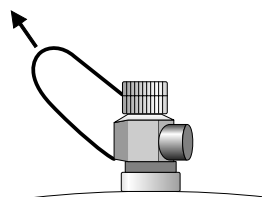
- b Keeping the button in the depressed position, turn the black switch anti-clockwise until it points downwards. The regulator can be lifted off the valve.

Never turn the switch to the "disconnect" position when the burner is alight. Wait until the burner and pilot go out; at this point turn the switch to the "disconnect" position.

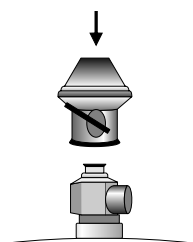
Always replace the orange safety cap on the cylinder valve.

MODEL NO. 541101 REGULATOR**Connecting the cylinder**

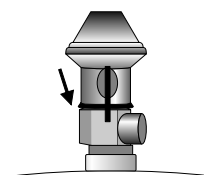
- a Turn the orange cap so that the arrow is pointing to the gap in the shroud.



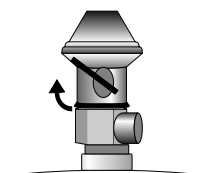
- b Remove the orange safety cap by pulling the lanyard out, then up. Do not use tools. Leave the cap hanging.



- c Check that the black sealing washer is fitted inside the cylinder valve. Place the regulator down over the valve until the lever of the coupling engages with an audible click.



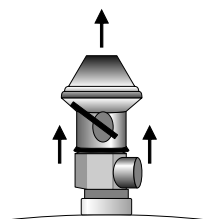
- d When gas is required, turn the switch anticlockwise to the ON (6 o'clock) position.

Disconnecting the cylinder

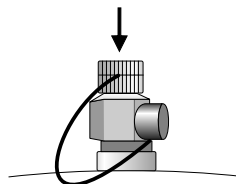
- a Turn the switch clockwise to the OFF position.

- b WAIT until the burner and pilot light have gone out.
IF THE FLAME DOES NOT GO OUT - TURN THE SWITCH BACK TO "ON", LEAVE THE APPLIANCE ALIGHT, AND CALL YOUR GAS SUPPLIER.

- c Never lift the disconnect lever whilst turning the ON/OFF switch.



- d With the regulator switch in the OFF position lift the disconnect lever and lift the regulator from the cylinder valve.



- e REPLACE the orange safety cap onto the empty cylinder, or part full cylinder if not in use.

GENERAL SAFETY INSTRUCTIONS

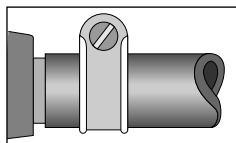
Type	Category	Max. Input		Low Input		Gas pressure	Gas combustion air-quantity
See rating label		Kw	g/h	Kw	g/h	28÷30 mbar	8,4 m³/h
		4,2	305	1,50	109		

This appliance is designed to operate with Butane, propane or mix. LPG at nominal pressure: 28÷30 mbar

Cylinder valve

If heater does not completely extinguish, including pilot, when gas is turned off, do not remove regulator. Return valve to open position and leave heater alight, which is perfectly safe, until attended to by the gas supplier.

Regulators, hoses and clips



Check that tubing is completely over the nozzles at each end of the tubing and that it is held firmly in place by hose clips. Examine flexible tubing regularly and get your dealer to fit new tubing 400 mm long complying to local standard, if perished, worn or damaged. In any case replace the tube every 5 years. L.P.G. attacks natural rubber - use only tubing to B.S. 3212 Type 2 supplied by your dealer.

When connecting the regulator to the container avoid undue twisting of the flexible hose. A regulator to B.S. 3016 set at 28 mbar (11,2 in w.g.) for butane must be connected to the appliance with the above tubing, using suitable hose clips.

Ventilation

Use only in a well ventilated room.

Adequate ventilation must be provided in rooms in which the heater is used. This ensures removal of the products of combustion and allows the entry of replacement air. Adequate ventilation should considerably reduce the possibility of condensation occurring.

The following table shows the smallest size of room suitable for the heater and the ventilation which must be provided. The heater may be used for short periods in smaller rooms.

Room Size	Room Aperture
42 m³	105 cm²

Maintenance

Ensure that the heater is kept free of dust. When not in use the heater should be covered and stored in a dust-free place. Stains on the exterior should be removed with a soapy solution when the heater is cold. Dry with a polishing cloth do not use abrasive cleaners which will damage the paint finishes. Refer any major maintenance to your Local Authorised Dealer. Major servicing should be carried out every 2 - 3 years. If in doubt refer to your authorised dealer.

Safety guard:

The guard on this appliance conforms to the requirements of B.S. 1945: 1971 and satisfies the heater appliances (fireguards) regulations. The guard is to prevent risk of fire or injury from burns and no part of it should be permanently removed.

It does not give full protection for young children or the infirm.

Positioning the heater:

DO NOT PLACE clothes or other materials on the heater.

DO NOT POSITION heater close to chairs or fabrics.

DO NOT MOVE the heater across the room when lit.

DO NOT POSITION the heater alongside a wall or near curtains etc.

ALWAYS face the heater towards the centre of the room.

Operating instructions:

The gas is turned on and off at the cylinder. The heat input and spark for ignition are controlled by the knob situated on the top right hand side.

Lighting the heater:

- 1 Turn on the gas cylinder by either:
 - a Turning the cylinder valve anti-clockwise where a screwed cylinder connection is used.

- or b Turn the black switch clockwise so that it points towards the flame symbol where a switch-on system is used (Model No. 182H).



- or c Turn the switch anti-clockwise to the ON (60° clock) position (Model No. 541101).



- 2 Fully depress the grey button () for 10 seconds and push 2 or 3 times the red button () (if pilot flame does not ignite, repeat the above mentioned operations). Continue to fully depress the grey button for a further 20 seconds to allow the thermocouple probe to heat up, then release.

- 3 Turn the thermostat knob anticlockwise on position 6 and allow all three burners to heat up.

When the room has reached the desired temperature, slowly rotate the thermostat knob clockwise until the side burners turn off.

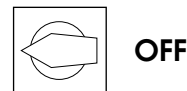
In this way the appliance will maintain the desired room temperature automatically changing from maximum input () to low input () and viceversa.

Turning off the heater:

The heater will only be totally "OFF" when the supply of gas from the cylinder has been turned "OFF" after use the appliance must be turned "OFF" at the valve.

- a Turning the cylinder valve clockwise where a screwed connection is used.

- or b Turning the black switch anti-clockwise so that it points in the horizontal position if a switch-on system is used (Model No. 182H).



- or c Turn the switch clockwise to the OFF position (Model No. 541101).



DO NOT ATTEMPT to relight until FIVE minutes have elapsed.

Warning for switch-on system:

when the heat is alight, never turn the switch on the cylinder to the disconnect position. Wait until heater and pilot go out, then and only then, should the switch be turned to the disconnect position if the cylinder requires changing.

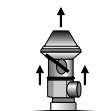
FOR MODEL No. 182H

If the black switch of your regulator is fitted with a centre button this must be depressed before turning to the disconnect position.



FOR MODEL No. 541101

With the regulator switch in the OFF position, lift the disconnect lever and lift the regulator from the cylinder valve.



It is dangerous to switch to the disconnect position when the heater is alight.