



# LIVING FLAME CABINET HEATER MODEL 398

**For use in the United Kingdom (G.B.) and the Republic of Ireland (I.E.) only**

## OPERATING INSTRUCTIONS

### IMPORTANT

Before connecting a gas container and operating this appliance, please read these instructions. Read also the heater Safety Instructions - spare copies may be obtained from your Dealer.

\* **This appliance MUST NOT be used in high rise flats, basements, bathrooms bedrooms or other sleeping quarters.**

This heater is an infra-red heater operating from a 12-15 Kg cylinder of BUTANE GAS (G30) at 28.0 mbar (11.2 in w.g.)  
The heater incorporates two distinct safety devices.

- Thermo-Electric Flame Failure Device:** Situated next to the pilot is a special thermocouple probe which is connected by a capillary tube to the gas tap at the top of the casing. In use, this probe when heated by the pilot, opens the gas supply so that the main burner can light. If, for any reason, the pilot flame is extinguished, the thermocouple head cools automatically shutting off the gas and so rendering the appliance safe.
- Atmospheric Analyser:** This is combined with the pilot. During normal operation of the heater, carbon dioxide is produced, just as results from a person breathing. In an ordinarily ventilated room this gives no trouble, but sometimes, in enclosed spaces an excess can result creating a stuffy atmosphere. The atmospheric analyser senses when a certain level of carbon dioxide has been reached and the pilot flame ceases to heat the thermocouple probe of the flame failure device, so that the heater automatically switches off.

### BEFORE LIGHTING

Make sure all packaging has been removed from around the heater.

DO NOT ATTEMPT TO LIGHT THE HEATER IF DAMAGED – ESPECIALLY IF THE COAL OR GLASS IS BROKEN

### POSITIONING OF HEATER:

**DO NOT** place clothes or other materials on the heater.

**DO NOT** position the heater close to chairs and fabrics.

**DO NOT** move the heater when lit.

**DO NOT** position the heater alongside a wall or near curtains, etc.

**ALWAYS** face the heater towards the centre of the room.

Refer to the heater safety Instructions.

### 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 table below gives the smallest space and ventilation requirements for this flueless heater.

SMALLEST INTERNAL SPACE VOLUME (See * above for limitations)		MINIMUM SIZE OF OPENING FOR VENTILATION (See note 1 below)
ROOMS	OTHER INTERNAL SPACES (See note 2 below)	
80 m <sup>3</sup> 2825 ft <sup>3</sup>	40 m <sup>3</sup> 1412 ft <sup>3</sup>	100 cm <sup>2</sup> 15.5 in <sup>2</sup>

NOTE: 1. The ventilation opening area should be equally divided between high level and low level. The room must also have an openable window or equivalent.

2. Internal spaces include halls, passageways, stairways or landings which are not rooms.

### WARNING - LEAKAGE OF GAS

Should a gas leak be suspected, close the cylinder valve and extinguish all naked lights. Locate by smell or with a soapy solution - NEVER USE A MATCH.

### OPERATION OF THE HEATER

The ignition system fitted to this heater is a highly efficient piezo-electric unit. Pressing the button compresses a special piezo-ceramic cartridge which produces a high-tension current and creates a spark near the tip of the pilot. This type of ignition requires no battery replacement or other maintenance.

The gas is turned on and off at the cylinder

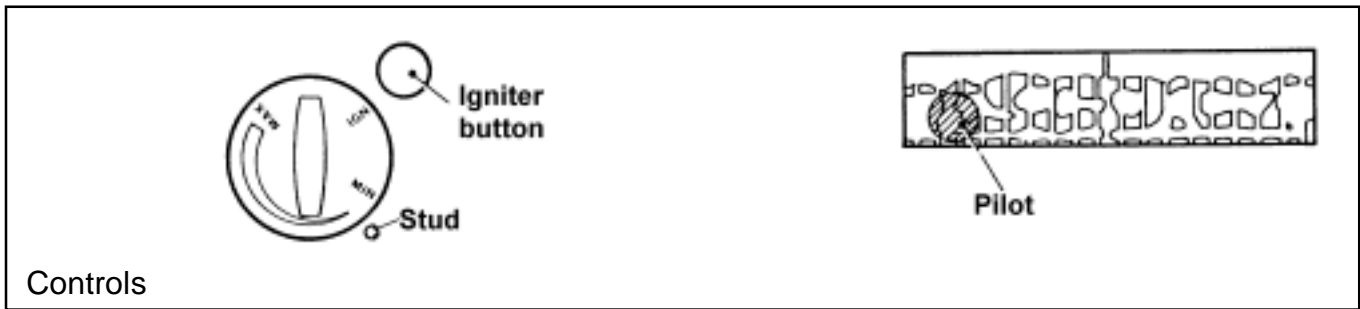
### TURN ON THE GAS AT THE CYLINDER BY EITHER

- Turning cylinder valve anti-clockwise where a screwed cylinder connection is used. Or
- Turning the black switch so that it points upwards where a switch-on system is used.

### TO LIGHT:

The heater should have been fitted with a gas cylinder in the way illustrated in the safety instructions. It is important that all connections have been correctly made to prevent any gas leakage.

1. Reach in through the aperture over the rear door of the casing and open the gas cylinder valve.
2. With the control knob turned to IGN press down the knob and hold in this position.



3. Whilst holding down the control knob, press the igniter button to light the pilot. If the pilot does not light first time, press again.
4. With the pilot alight, continue to hold down the control knob for a further ten seconds to allow time for the thermocouple to heat up. On releasing the control knob the pilot should remain alight.
5. Select your desired heat position. The heat level can be set anywhere between the MIN and MAX control settings.

### TO EXTINGUISH:

TURN OFF HEATER COMPLETELY BY:

EITHER

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

Or

- (b) Turning the black switch so that it points in a near horizontal position if a switch-on system is used.

(DO NOT touch the centre button if fitted to the black switch of your regulator).

DO NOT ATTEMPT to re-light until five minutes have elapsed.

### NOTE - FOR SWITCH-ON SYSTEM:

When the heater is alight, NEVER turn the switch to disconnect the regulator from the cylinder. Wait until the heater and pilot go out, then and only then, should the regulator be disconnected if the cylinder requires changing.

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

It is dangerous to attempt to switch disconnect the regulator from the cylinder when the heater is alight.

### CONNECTION

When connecting the regulator to the container avoid undue twisting of hose.

#### FOR UNITED KINGDOM

A suitable regulator set for 28 mbar (11.2 in w.g.) MUST be used to adjust to the correct operating gas pressure. A flexible hose to B.S. 3212 type 2 (minimum length 400mm) should be used with suitable jubilee or O clips.

#### FOR REPUBLIC OF IRELAND

A suitable regulator set for 28 mbar (11.2 in w.g.) MUST be used to adjust to the correct operating gas pressure. A flexible hose conforming to the rules in force (minimum length 400mm) should be used with suitable jubilee or O clips.

### CHANGING CONTAINERS:

Changing containers must not be undertaken in the presence of naked lights. Change cylinders in accordance with the instructions provided in the Heater Safety Instructions.

### SAFETY GUARD:

The hot air outlet grille and the glass panel together form the guard on this appliance and conform to the requirements of BS 1945 - 1971 and satisfy the Heating Appliances (Fireguards) (Safety) 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 THE ELDERLY, YOUNG CHILDREN OR THE INFIRM.**

### GENERAL INFORMATION

Appliance Cat. I<sub>3B</sub> EN437

### AIR IN THE SUPPLY PIPE:

After changing to a new gas cylinder an amount of air will be present in the supply pipe, and it may be necessary to hold the control knob for a little longer than mentioned in the lighting instructions, so as to enable gas to reach the pilot for ignition. The igniter button can be pressed as many times as is necessary to cause ignition, there being no need to repeat a full lighting sequence.

### MAINTENANCE AND STORAGE:

The body panels of this heater are made from rugged steel. Cleaning is simply performed by either dusting, or wiping with a damp cloth. The remaining parts of the heater should require only occasional dusting. Cleaning should be done when the heater is cool. When out of use for long periods, the heater should be covered and stored in a dry dust-free place. For continued trouble-free and safe use of the heater we recommend that it is serviced every one or two years. See your dealer.

**WARNING:** For your own safety do not allow unauthorised interference to the heater. Servicing must be carried out by a qualified engineer - See your dealer.

*Because our policy is one of constant development and improvement details may vary slightly from those in this publication.*

**Valor HEATING**  
**ERDINGTON : BIRMINGHAM B24 9QP : ENGLAND**

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