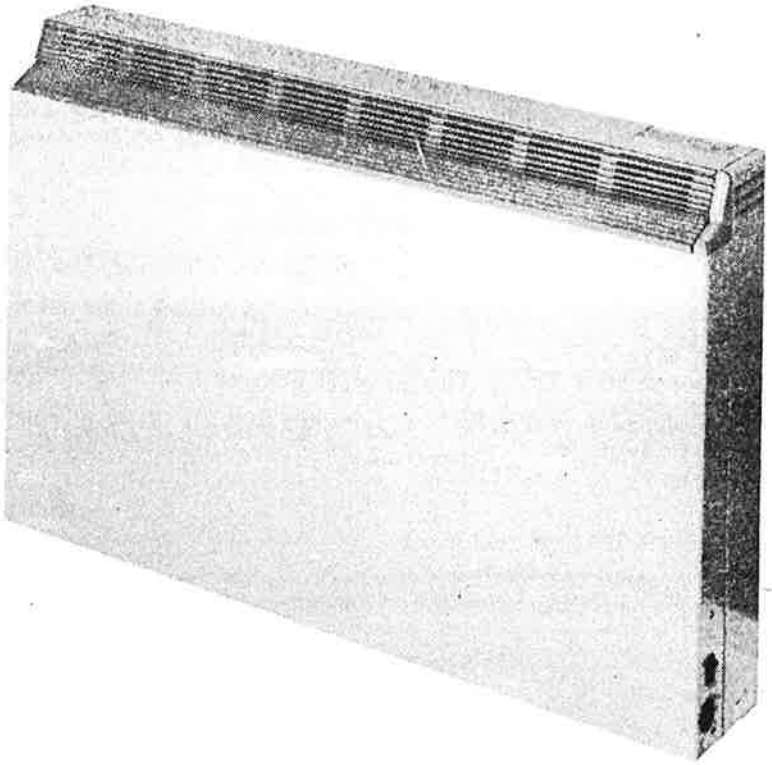
Berrymagical

UNIDARE

UNIDARE ENVIRONMENTAL

COMBINED STORAGE AND CONVECTOR HEATERS



MODELS CS12/CS18/CS24

INSTALLATION INSTRUCTIONS

IMPORTANT INSTRUCTIONS

These instructions should be read carefully and retained for future reference.

Note also the information given on the appliance.

The installation of this appliance should be carried out by a competent electrician and be in accordance with the current IEE Wiring Regulations.

This heater is NOT suitable for connection to a 30A ring circuit.

DO NOT COVER OR OBSTRUCT the surface of this appliance

POSITIONING

DO NOT POSITION under windows where curtains may contact the heater.

The feet and wall mounting arrangements are designed to accomodate skirting board sizes of up to 230mm (9") high and 25mm (1") thick.

For safety and to adequately operate the controls, the heater must be positioned at least 150mm (6") from an end wall or furniture.

In addition a space of at least 250mm (10") should be allowed above the heater.

FITTING HEATER TO WALL

WARNING - This heater is VERY HEAVY. In order to maintain stability and to ensure its safety in use, it is essential that the heater is FIXED SOUNDLY TO A WALL and that the feet are mounted on a FIRM, LEVEL SURFACE. It is very important that the following instructions are strictly followed.

Fitting on top of carpet

If the heater is to stand on top of a carpet, the following action MUST be taken:

1. Ensure that any carpet gripper is removed from the vicinity of the storage heater feet.
2. Ensure that the carpet and underlay cover completely the area under the feet so that they stand on a level surface.

   If the underlay is very thick, it is advisable to cut it away completely from the feet and for a sufficient area around the feet to allow the feet to rest firmly through the carpet onto the floor.

Fitting directly to the floor

If the floor is carpeted, then the carpet may be slit and underlay cut away to allow the feet to rest firmly on the floor. Carpet gripper MUST be removed so that the feet rest firmly in a level position.

Fixing to the wall

IT IS IMPORTANT THAT THE FIXING DEVICE CHOSEN IS APPROPRIATE TO THE WALL MATERIALS TO WHICH THE HEATER IS BEING FIXED. SOME MODERN INTERNAL BUILDING MATERIALS ARE VERY LOW DENSITY BLOCK AND REQUIRE SPECIALISED FIXING DEVICES TO PROVIDE A SAFE AND SECURE INSTALLATION.

Solid Brick/High Density Block Walls

These must be drilled and plugged with a Rawlplug No. 10 size. The correct size of drill - 5.5mm - should be used and the hole should be drilled to a depth 6mm greater than the length of the Rawlplug so that the fixing is made below the plaster layer.

Walls of low density block

A specialised fixing for low density block walls such as the Unifix LB70 should be used, following closely the manfacturer's fixing instructions.

Panelled Internal Walls

For panelled internal walls it is best to locate the studding, position the wall fixing member slots accordingly and use No. 10 size wood screws.

If it is not possible to locate the studding, use type M5 Rawlplug INTERSETS on securely fastened plasterboard panelling. For other wall panelling materials, the wall panel manufacturer should be consulted for details of suitable fixing devices.

Minimum number of wall fixings:

MODEL	NO. OF FIXINGS
CS12	3
CS18	4
CS24	5

STORAGE BRICKS

The storage bricks are packed separately in pairs.

Model CS12 requires 4 packs (8 bricks)
Model CS18 requires 6 packs (12 bricks)
Model CS24 requires 8 packs (16 bricks)

ASSEMBLY OF HEATER

1. LOOSE PARTS
   Having carefully removed the heater from the carton the following parts are provided loose in the bottom packing:-
   2 Feet for the CS12 and CS18 Models and 3 Feet for the CS24 Model. A plastic bag containing the screws for the feet, Cable Clips with screws and the compliment of screws for the Inner Front panels (some are already fitted during manufacture of the heater).
   Note - Avoid damage to sensor on heater base.
2. Lay the heater on its back and fit the feet using a screwdriver or a spanner. Models CS12 and CS18 use 2 feet and Model CS24 has 3 feet (see Figure 1).
3. Remove the top/front panel assembly by removing the screws across the back of the top panel and the screws located at the bottom of the front panel. Lift the top/front panel clear of the front lugs and remove it by hinging it outward and upwards. (see Figure 2).
4. The cable entries are located on the bottom right hand side of the heater. (convector at front, storage heater at back).

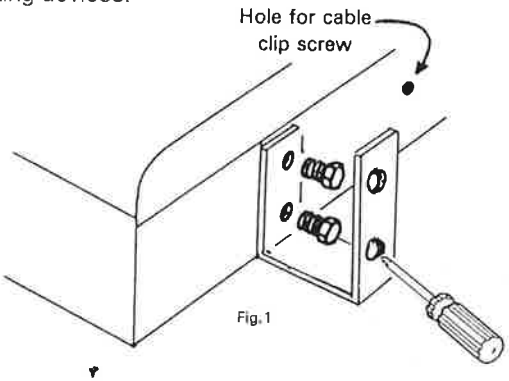
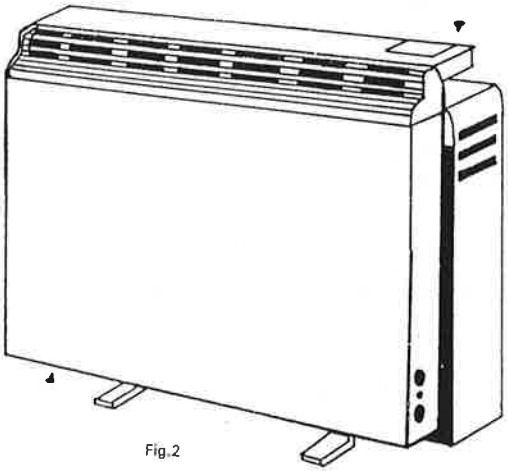
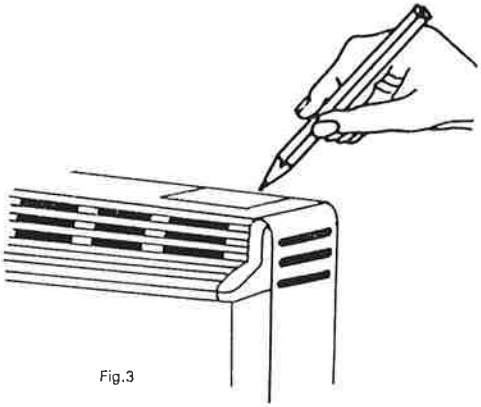


Fig.1


Fig.2


Fig.3

Where the supply is on the left hand side of the heater, the cable must be clamped with the nylon clips beneath the base of the heater. Cables must be clamped using the clamps incorporated in the cable entry grommets.

SURPLUS CABLE MUST NOT BE STUFFED INSIDE THE HEATER.

HEAT RESISTING CABLE MUST BE USED.

WARNING - THIS APPLIANCE MUST BE EARTHED.

Check all electrical connections for tightness.

5. Place the heater in its intended final position and mark off the wall fixing member location on the wall at each end (see Figure 3).
6. Remove the wall fixing member from the heater by removing the screws at either end. (see Figure 4).
7. Hold the wall fixing member in its position on the wall and mark the position of the holes. To allow for final positioning, ensure the fixing hole in the wall is in the middle of the slot in the wall fixing member (see Figure 5).

   Fix the wall fixing member to the wall using the correct type of fixing.

   Secure heater to wall fixing member using screws provided.
8. Remove screws from front inner panel and carefully remove front inner panel with insulation panel in position, together with the top and bottom baffles (see Figure 6 and paragraph 1).
9. Carefully remove internal packing containing the heating elements.
10. Position bottom layer of bricks with the airways facing the front of the heater.

    Position the top rear layer of bricks with the airways facing the front of the heater.
11. Fit the heating elements to the terminals in the base ensuring that the insulators are in contact with the upper face of the terminal blocks, and also that the elements are placed through the insulating paper (see Figure 7).

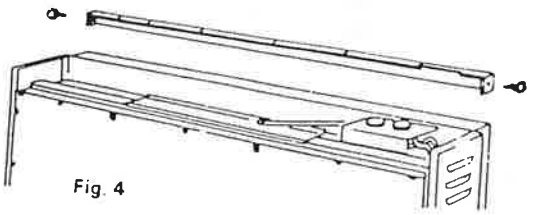


Fig. 4

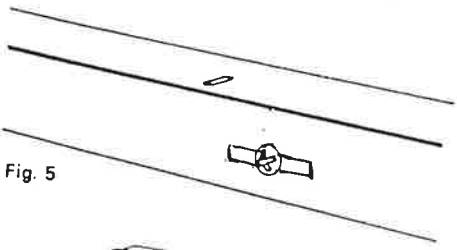


Fig. 5

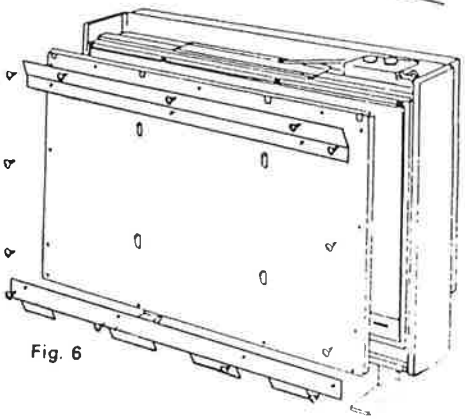


Fig. 6

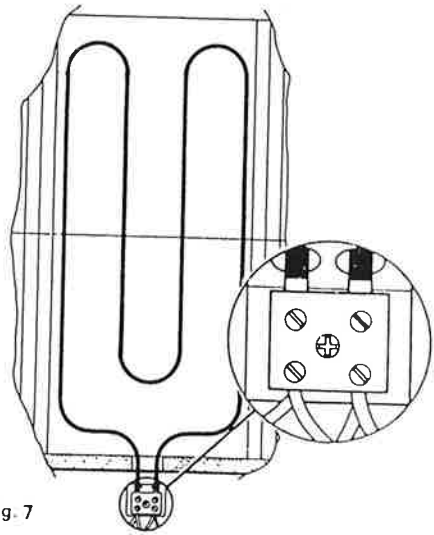


Fig. 7

12. Fit front bricks in the same manner as the rear bricks. Ensure the airways face towards the back of the heater.

13. Refit front inner panel by first fixing loosely with two screws at the sides, and two screws at the top, but with the top baffle fitted and then pushing upwards gently, to ensure that the top of the front insulation panel is fully in contact with the top insulation blocks before tightening permanently. Fix the bottom baffle in position when screwing the bottom screws in. The full quantity of inner panel fixing screws must be fitted. (11 in CS12 model, 13 in the CS18 and 15 in the CS24 model) see paragraph 1.

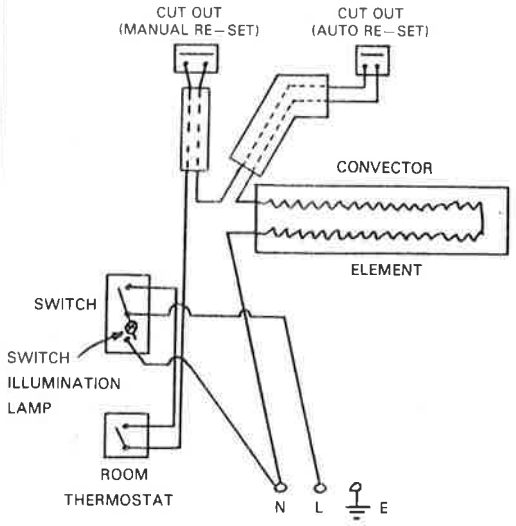
14. Loosen the screws at the ends of the wall fixing member and allow the heater to settle into its final position.
    Securely tighten the screws in the wall fixing member.

15. Replace top/front panel. Ensure lugs at bottom of front panel and lugs on side panels are engaged correctly. Secure the panel with screws at top and bottom.

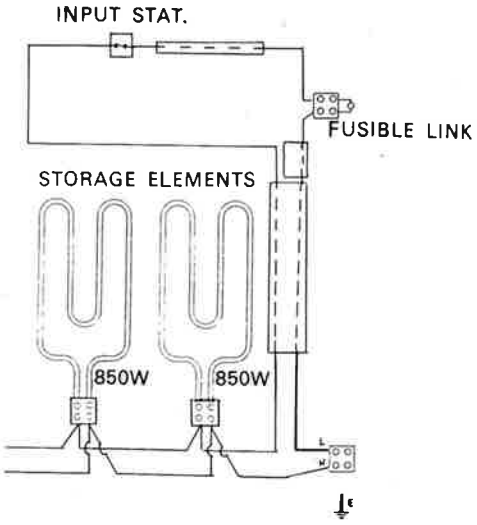
16. Disconnect the **Restricted Electrical Supply** and connect free end of cable of the **storage heater** to a suitable double pole switch adjacent to the heater.
    Connect free end of cable to the **convector** supply cable to the **Unrestricted Electrical Supply** using a 13 amp plug to BS 1363 fitted with a 13 amp fuse.
    The heater is now ready for operation and the electrical supply can be reinstated.

PLASTIC BAG CONTENTS			
MODEL	HEX HEAD SCREWS FOR FEET	COMP OF INNER PANEL SCREWS	CABLE CLIPS AND SCREWS
CS12	4	7	2 OF EACH
CS18	4	7	3 OF EACH
CS24	6	7	4 OF EACH

CIRCUIT DIAGRAM — CONVECTOR



CIRCUIT DIAGRAM - STORAGE HEATER



All enquiries for service should be directed in the first instance to the retailer from whom your product was purchased. Further information on the service of your appliance can be obtained from the Service Department at the Unidare Environmental address below.

Additionally spare parts may be obtained from your Electricity Board or through Unidare Environmental.

UNIDARE
ENVIRONMENTAL

PEAKDALE ROAD, BROOKFIELD INDUSTRIAL ESTATE, GLOSSOP, DERBYSHIRE SK13 9XG.
TEL: GLOSSOP (0457) 854815 TELEX: 667865 FAX: (0457) 852398

SEAGOE, PORTADOWN, COUNTY ARMAGH BT63 5HU, NORTHERN IRELAND.
TEL: PORTADOWN (0762) 333131 TELEX: 747205 FAX: (0762) 333042

UNIDARE HEATING AND PLASTICS LIMITED
JAMESTOWN ROAD, FINGLAS, DUBLIN 11, REPUBLIC OF IRELAND
TEL: (01) 771801 FAX: (01) 346419

Issue: 10-92-13
Ref: 4600.052