

## Dimplex Ultra-Slim Storage and Convector Heaters Models CXL12N, CXL18N, CXL24N Twin Sensor Models CXLS12N Automatic, CXLS18N Automatic, CXLS24N Automatic

(85317 Iss. 3)



### IMPORTANT

These instructions should be read carefully and retained for future reference. Note also the information given on the appliance.

This heater is **VERY HEAVY**. In order to maintain stability and to ensure its future 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**. Care should be taken to avoid irregular surfaces, such as may result from tiled surrounds partially protruding under the heater. It is important that the following instructions are strictly followed.

IT IS IMPORTANT THAT THE FIXING DEVICE CHOSEN IS APPROPRIATE TO THE WALL MATERIAL 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, SECURE INSTALLATION.

THE HEATER MUST BE INSTALLED WHERE IT IS IMPOSSIBLE FOR SWITCHES AND OTHER CONTROLS TO BE TOUCHED BY A PERSON IN A BATH OR SHOWER.

### Connection to a 30 amp Ring Circuit

The storage heater section of the CXLN/CXLSN should not be connected to a 30 amp ring circuit.

A means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.

The convector section may be connected to a 30 amp ring circuit by either of the following methods.

The installation of this appliance should be carried out by competent personnel and be in accordance with the current IEE wiring regulations. For the assembly of the heater tools required are a No. 2 pozidriver, an electrical screwdriver with a 4mm wide blade and a 8mm AF open ended or box spanner. A small mirror will aid insertion of the front panel retaining screws.

Only Heat Resisting Cable (min. rating T85) should be used.

**DO NOT COVER OR OBSTRUCT** the surfaces of the appliance.

**DO NOT INSTALL** the heater immediately below a socket outlet.

**DO NOT POSITION** under windows where curtains may contact the heater. (See minimum clearances, stage 6).

**DO NOT PLACE OBJECTS** in contact with the heater.

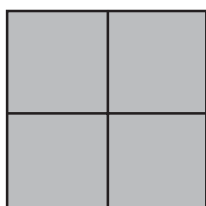
If, during any reassembly of the heater, a part of the thermal insulation shows damage or deterioration which may impair safety, it should be replaced with an identical part.

- (a) 13 amp fused connection unit with D.P. switch to BS5733.
- (b) 13A switched socket outlet and a 13 amp fused safety plug to BS1363 (we recommend the safety plug to be ASTA Certified for complete compliance to BS1363).

**NOTE:** The double pole switch must have a contact separation of at least 3mm in all poles.

Bricks are in packs of two.

The pack catalogue number is XT 8300



CXL12/CXLS12N - 12kWh  
8 Bricks (4 Packs)



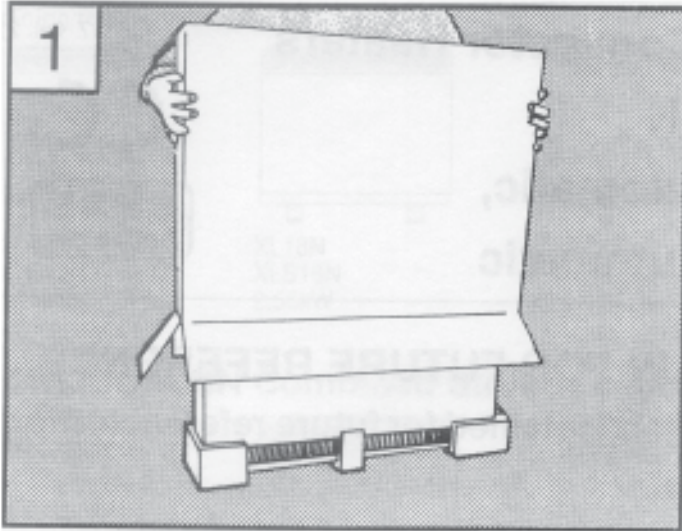
CXL18/CXLS18N - 18kWh  
12 Bricks (6 Packs)



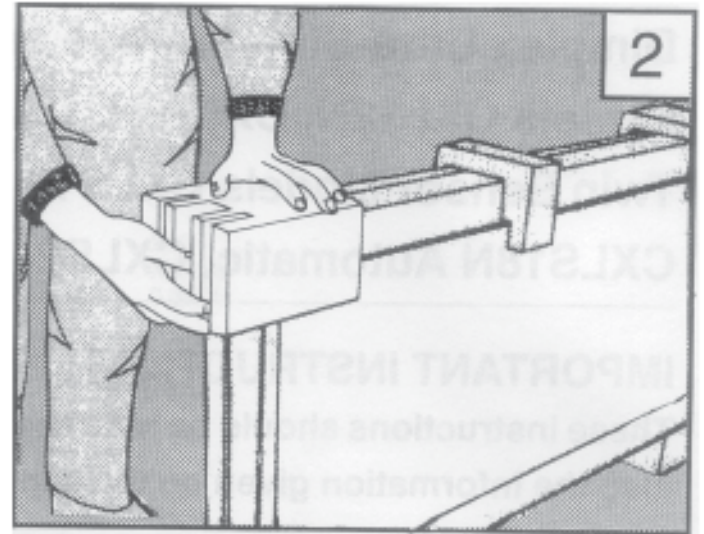
CXL24/CXLS24N - 24kWh  
16 Bricks (8 Packs)

## Assembly of heater

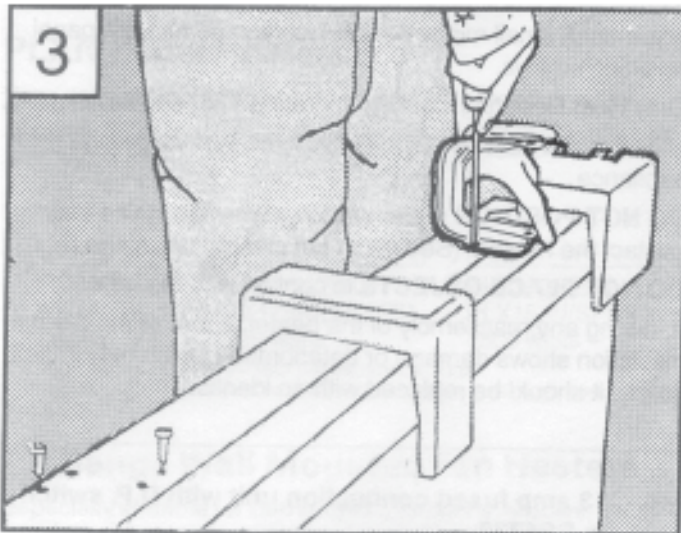
1. Invert carton and lift carton off heater. Take care to ensure that staples in carton flaps do not scratch surface of heater. Do not remove internal packaging pieces at this stage!



2. Remove feet and accessories bag from corner fittings (accessories bag is located within one of the feet).

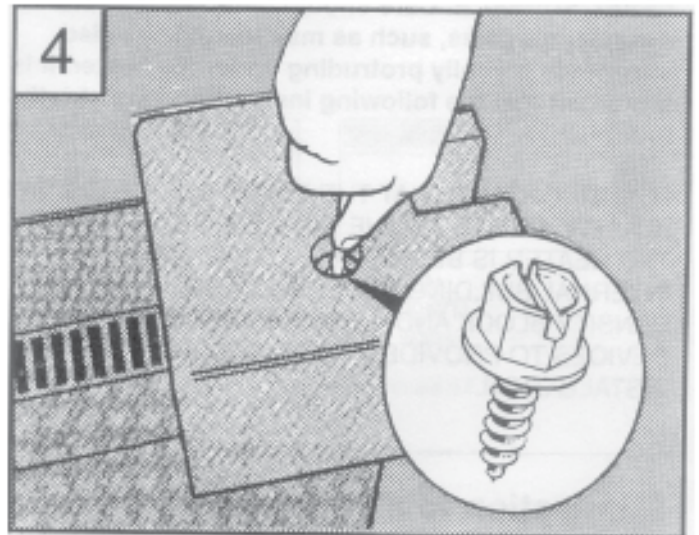


3. Secure feet to base of heater using two Taprite screws (provided) for each foot. (On models CXL12N/CXLS12N it would be necessary to remove base corner packaging pieces to locate feet in position). Apply end pressure whilst turning screws so that they form their own thread in the plunged holes in the base.

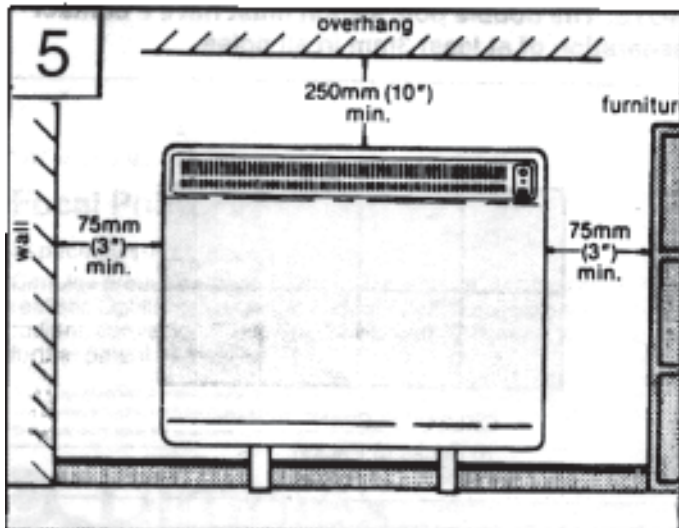


4. Loosen hexagon head front panel securing screws, by 1-2 turns using screwdriver through aperture in each end packing piece.

**Stand heater on its feet and remove all packaging pieces.**

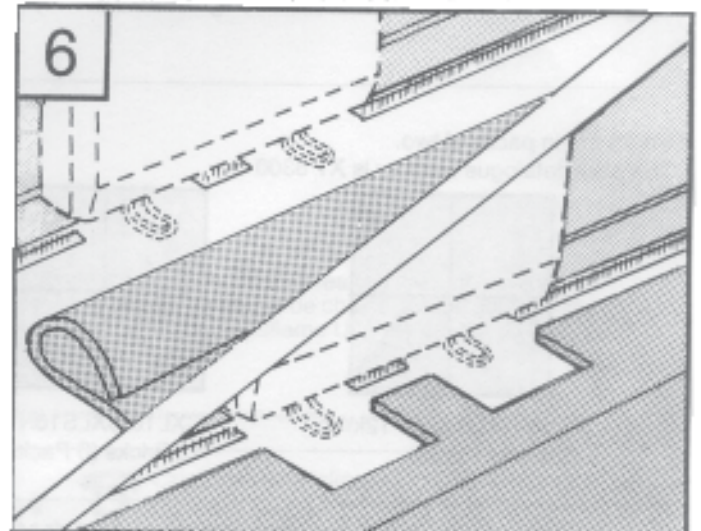


5. Position heater against wall in intended final position, taking note of the minimum fixing dimensions given below. If fitted, the Dimplex storage heater shell should be fixed in accordance with the instructions enclosed with the shell.



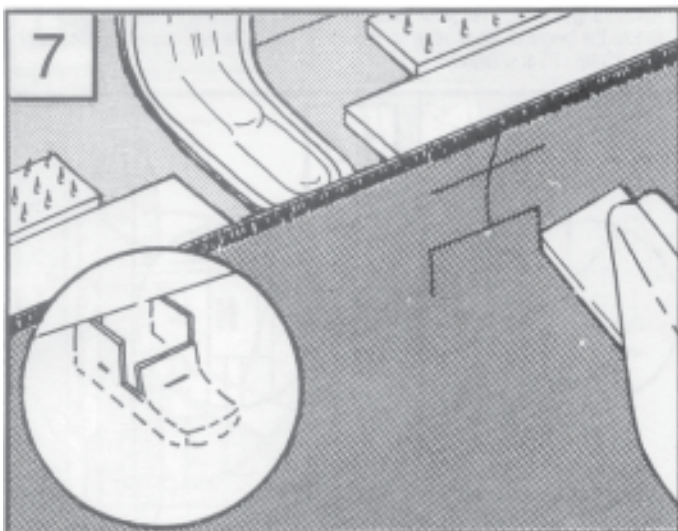
**Special instructions for fitting the heater to the wall.**

6. **Fitting on top of carpet.** If the heater is to stand on top of the carpet the following course of action **MUST** be taken: Ensure that any carpet gripper (e.g. "Gripperod") is removed from the final positions of the storage heater feet. Ensure that the carpet **AND** underlay **completely** cover the area under the feet so that they stand on a level surface. If the underlay is particularly thick it is advisable to cut it away completely

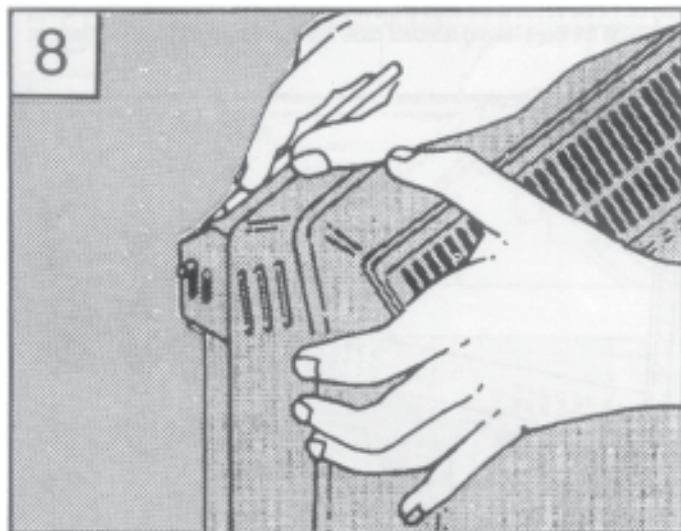


from under the feet and for a sufficiently wide area around the feet for them to rest firmly through the carpet onto the floor.

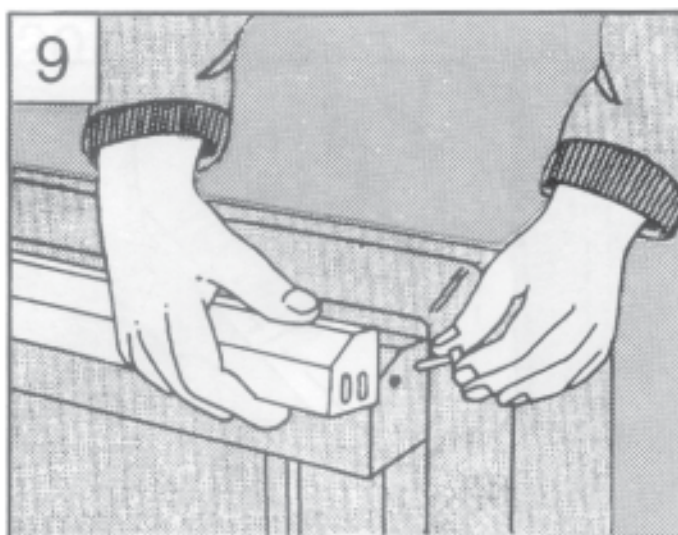
**7. Fitting directly on the floor.** If the floor is carpeted then the carpet may be slit and underlay cut away to allow the feet to rest firmly on the floor. Carpet gripper must be locally removed so that the feet may rest in a level position.



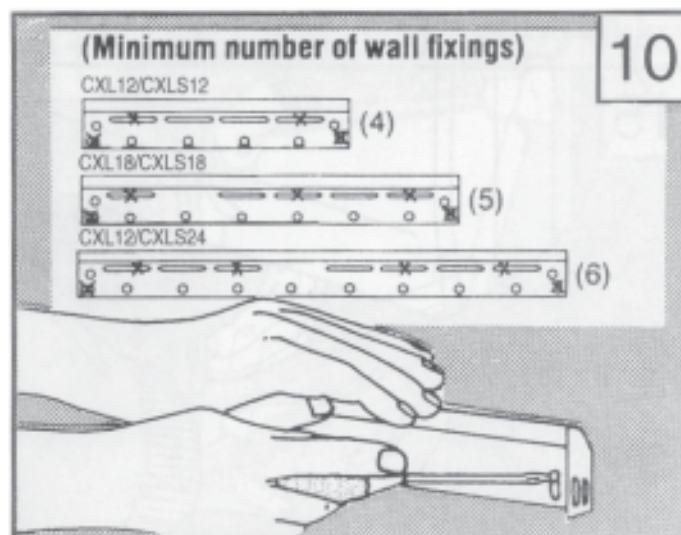
**8.** Having decided on the method of standing the heater on the floor the position of the wall bracket should be marked on the wall.



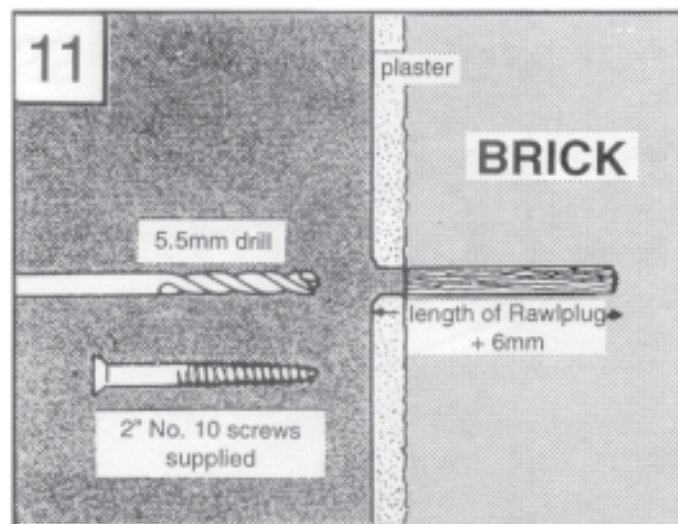
**9.** Remove wall fixing bracket from heater by removing the screws and spacer bushes at each end.



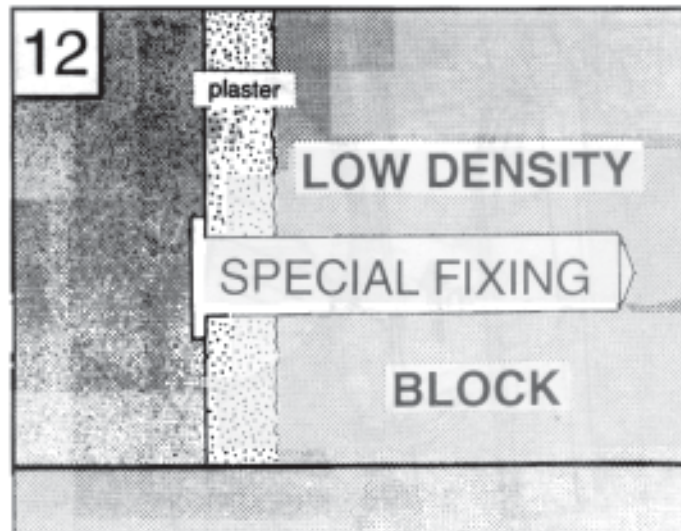
**10.** Mark wall bracket fixing positions and screw wall bracket to wall following closely the guidelines in steps 11 and 12. **NOTE:** It is essential that two of the fixing points are the lower short fixing slots at each end of the wall bracket.



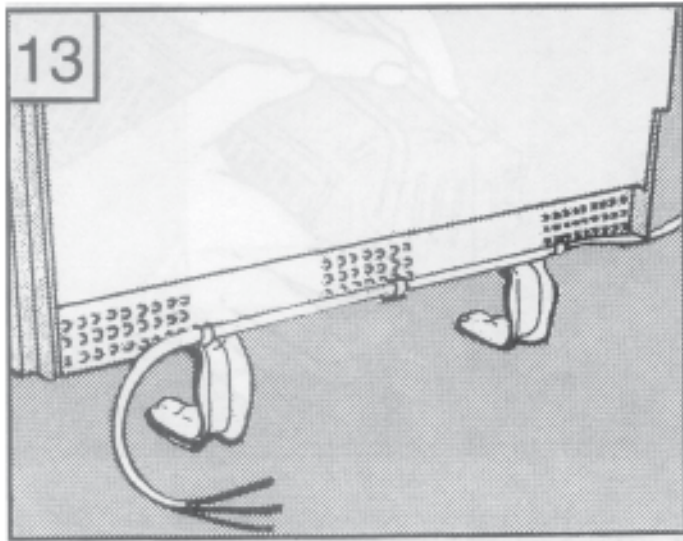
**11. Solid Brick/High Density Block Walls.** (See step 12 if walls are of low density block.) These must be drilled and plugged with the Rawiplug No. 10 size Fibre inserts provided. The correct size of drill (5.5mm) should be used and the hole should be drilled to a depth of 6mm greater than the length of the Rawiplug so that the fixing is made below the plaster layer.



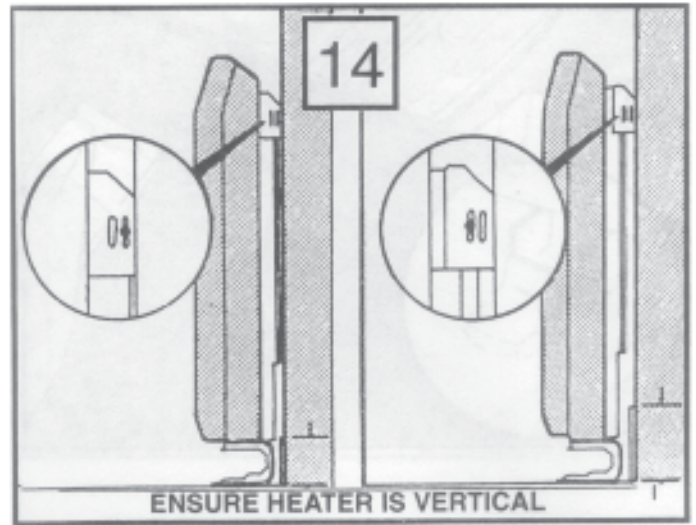
**12. Low Density Block Walls.** A specialised fixing, such as the Unifix LB70, should be employed following closely the manufacturer's instructions. **Panelled Internal Walls.** Here it is best to locate the studding and use No. 10 size woodscrews. Where it is not possible to locate the studding use type M5 Rawiplug INTERSETS on securely fastened plasterboard panelling. For other wall panel materials the wall panel manufacturer should be consulted for details of suitable wall fixing devices.



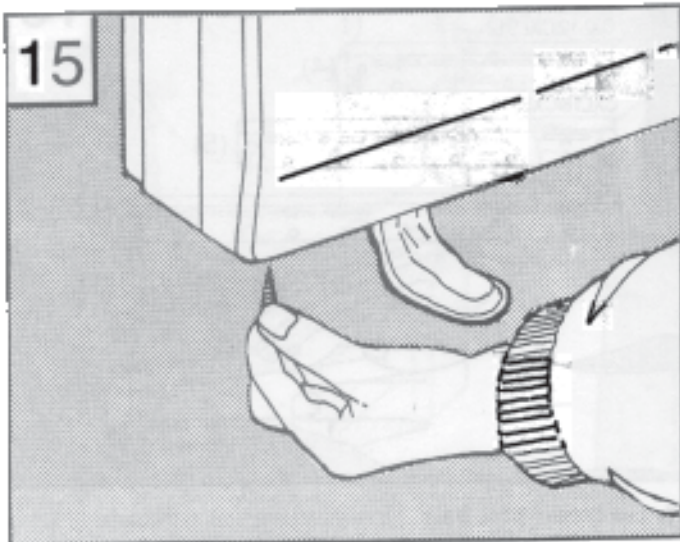
13. At this point determine which side of the heater off peak and on peak supplies are to be connected. If off peak supply is to be connected from right hand end and on peak from left hand end proceed to next step. If wiring of the building does not correspond with these cable entry points then it will be necessary to use the cable support straps supplied in the fixing kit. Fit the straps to the base of the rear of the heater. The supply cables should be fed through the loops leaving sufficient cable free to make connection easier later on.



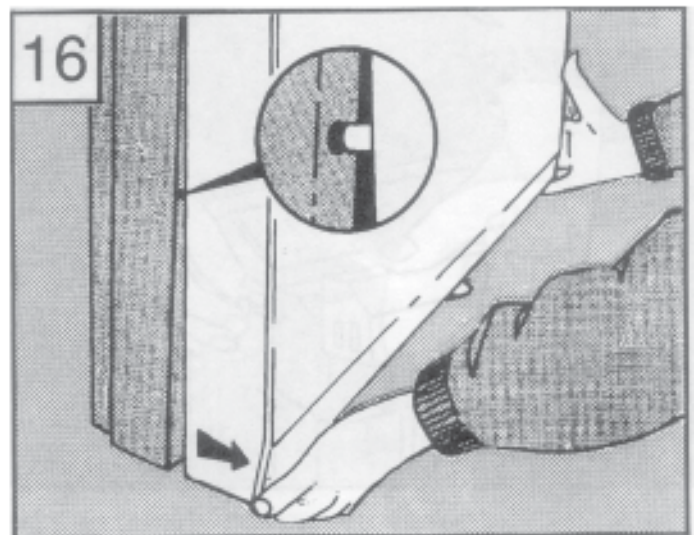
14. Secure heater to wall fixing bracket by replacing the two screws and spacer bushes removed in step 11. The feet and wall mounting arrangement are designed to accommodate skirting board sizes up to 25mm (1") thick. **To avoid obstructing the airflow to the rear of the heater the following must be strictly adhered to:**  
 (a) For skirtings higher than 100mm (4") it will be necessary to position the heater with the screws attached through the alternative fixing slots to the front.  
 (b) For skirtings having a height in excess of 150mm (6") it will be necessary to reduce the height of the skirting to 150mm (6") over the entire length of the heater plus 25mm (1") at either end.



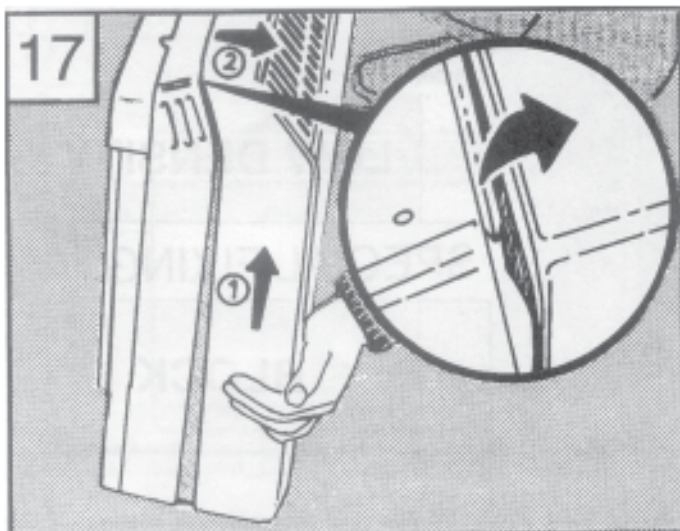
15. Remove bottom front panel securing screws. These were loosened in step 3 and should be easily unscrewed by hand.



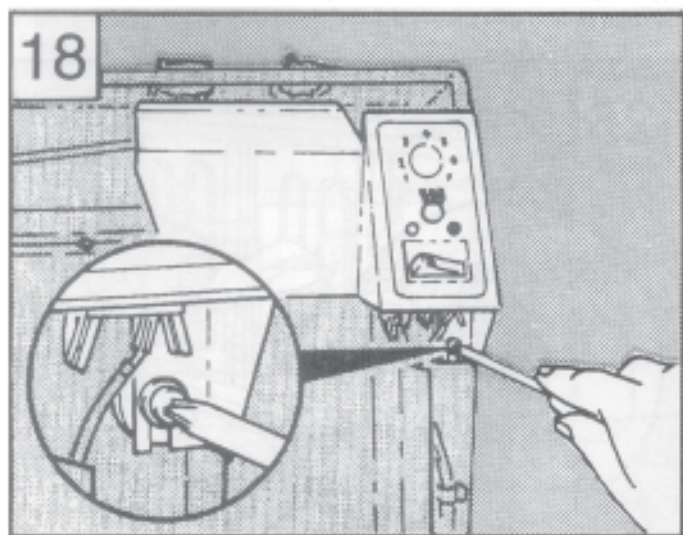
16. Pull bottom of front panel forward to disengage the location pegs from the side panels and clear it from bottom of heater.



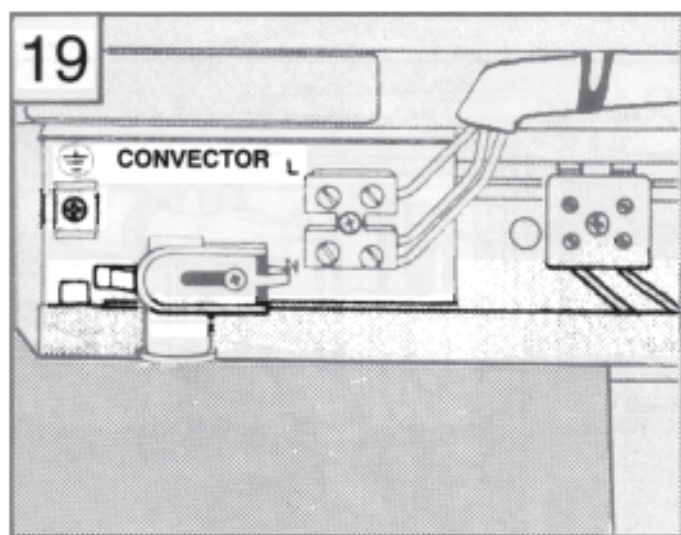
17. Still holding bottom of front panel forward, lift upwards (1), to disengage top edge of front panel from groove on heater top panel and remove front panel from heater (2).



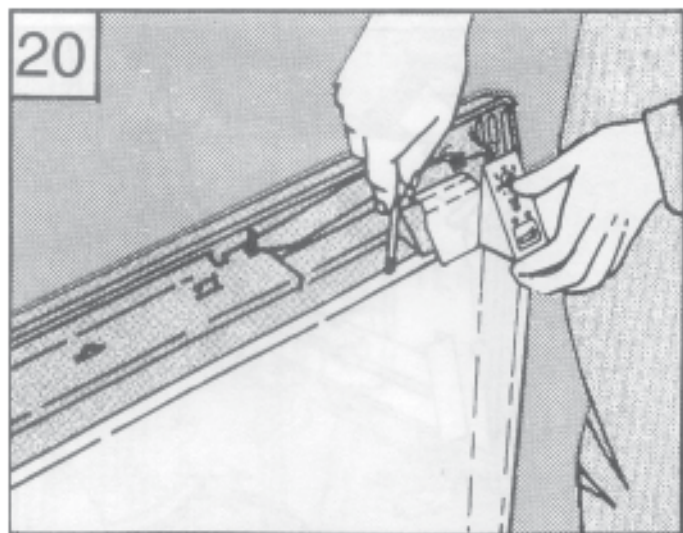
18. Remove the screw securing the convector controls bracket to the side panel along with the spacer, nut and washer, taking care to ensure that the retaining nut is not dropped.



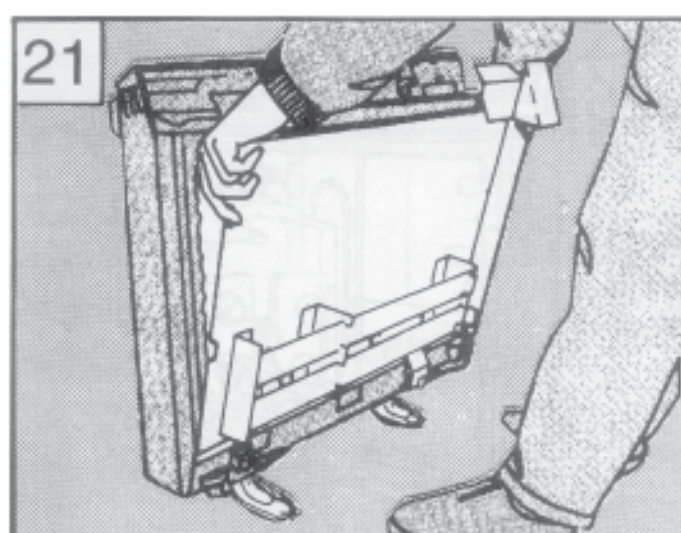
19. Remove the convector circuit mains block and insulation card from the left side of the base panel. Unclip the wires running across the heater below the inner front.



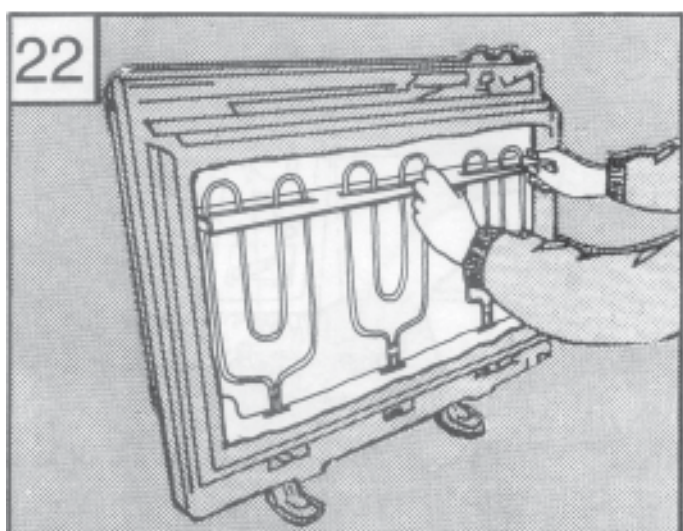
20. Remove screws retaining front inner skin.



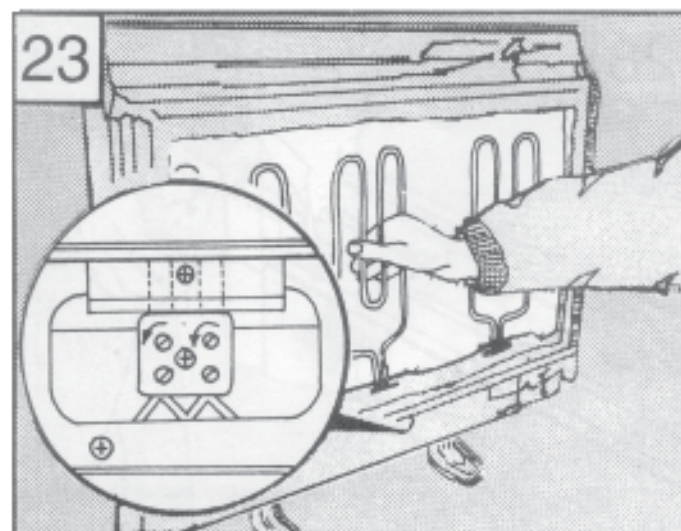
21. Carefully lift the bottom of the front inner skin panel out of the retaining flange at the base of the heater, taking care not to damage the insulation, hydraulic thermostat probe, heating elements and other vulnerable components attached to this panel.



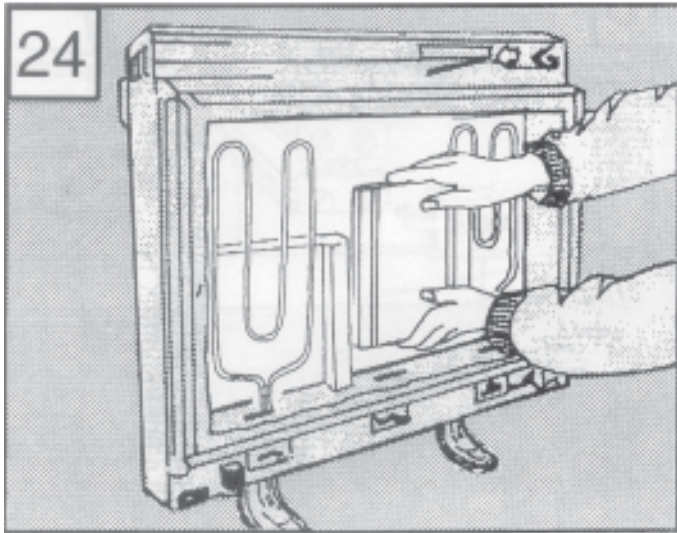
22. Remove the internal packing by sliding it up and off the elements, taking care not to damage the insulation.



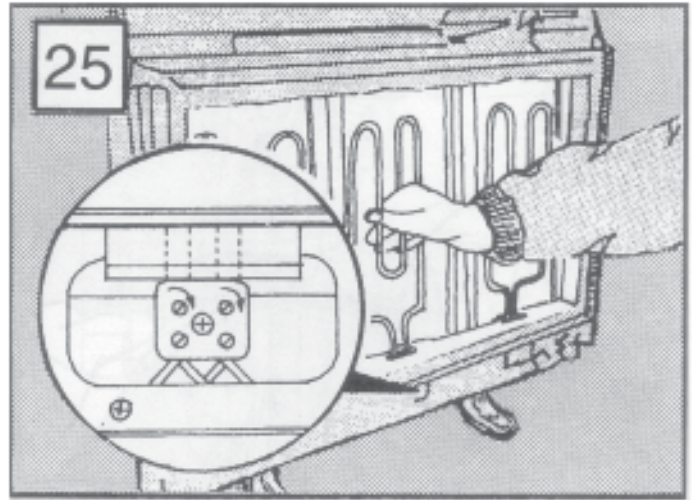
23. Remove one element to allow access for the back row of bricks. on the CLX24N/CLXS24N remove the element to the right of centre, on the CXL18N/CXLS24N remove the central element and on the CXL24N/CXLS24N remove the left hand element. Loosen the two screws securing the element tails in the ceramic block, and lift the element up and out of the heater.



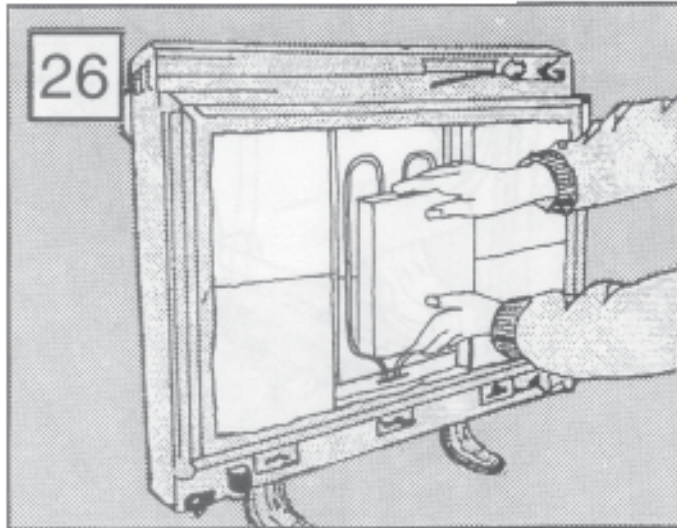
24. Position the bottom rear leayer of bricks with the airway restrictions coincident with the air slots in the base insulation slab. Push the bricks firmly to the back of the heater. Fit the top rear row of bricks, with the airway restrictions uppermost.



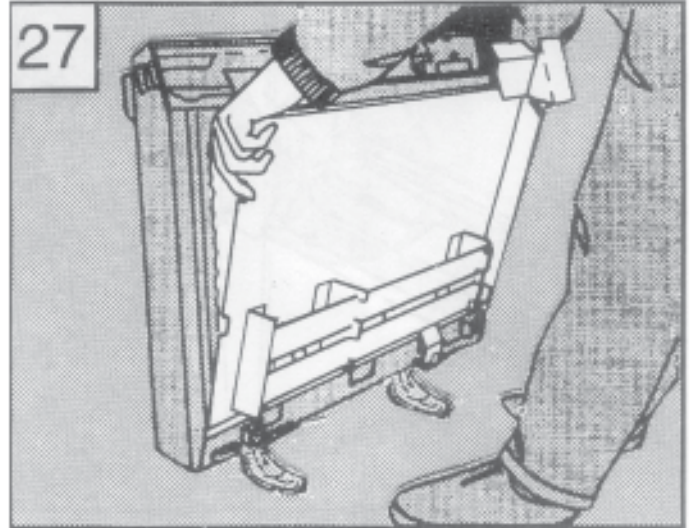
25. Replace the element which had been removed by carefully passing the ends through the base insulation slots into the terminal blocks below. Position the insulator on the element end in contact with the terminal block ceramic as shown, and tighten the connection screws. At this point check that all element connections are tight.



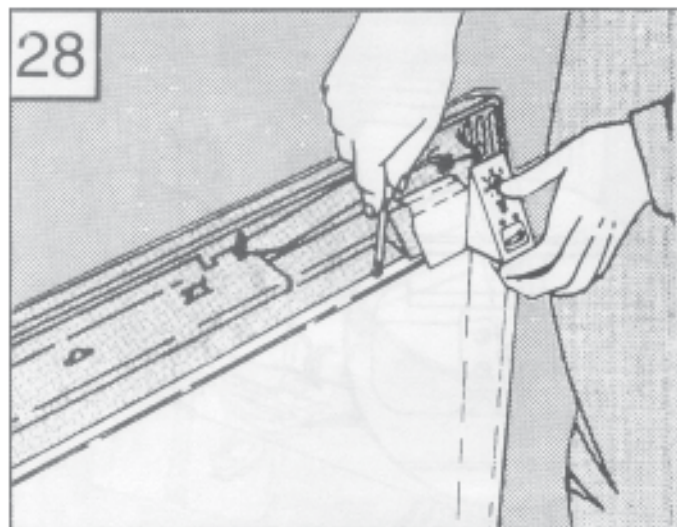
26. Fit the front bricks with the airways facing inwards.



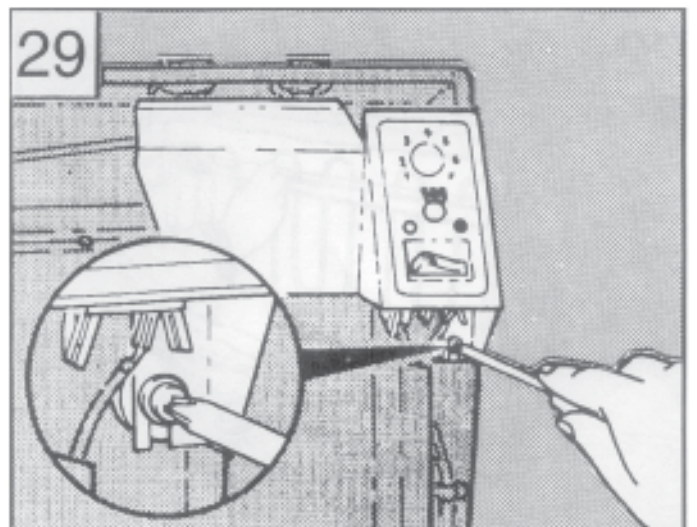
27. Re-fit the inner front panel/insulation assembly, ensuring the bottom edge of the panel is located behind the base flange.



28. Make sure screws removed in operation 20 are replaced securely.



29. Replace the spacer nut, washer and screw removed in 18 and reconnect the two quick connect terminals removed in 19.



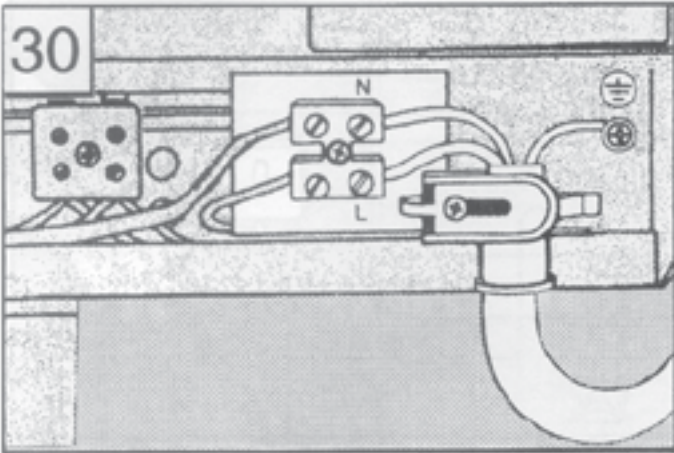
30. Connect the off peak supply to the storage terminal block at the right side of the base panel.

Replace the convector terminal block and insulation card at the left side of the base panel, slip wires running across heater and connect the peak supply.

HEAT RESISTING CABLE MUST BE USED.

NOTE: ON NO ACCOUNT SHOULD SURPLUS CABLE BE STUFFED INSIDE THE HEATER.

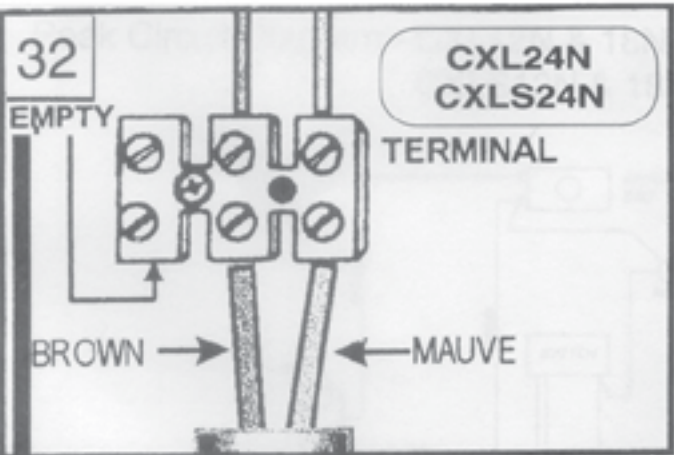
WARNING: THIS APPLIANCE MUST BE EARTHED. CHECK ALL ELECTRICAL CONNECTIONS FOR TIGHTNESS.



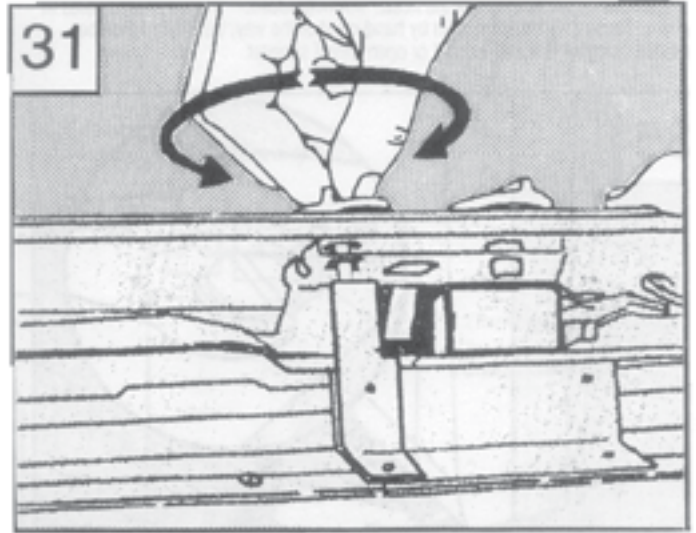
32. Select the convector heater load appropriate to your recommended heating design scheme by, if necessary, disconnecting one convector element by moving either the brown or mauve wire to the empty barrel on the white terminal block on the internal baffle.

Model	Brown Wire Still in Circuit (Upper Element)	Mauve Wire Still in Circuit (Lower Element)	Both in Circuit
CXL12N/CXLS12N	450W	450W	900W
CXL18N/CXLS18N	450W	1000W	1450W
CXL24N/CXLS24N	650W	1350W	2000W

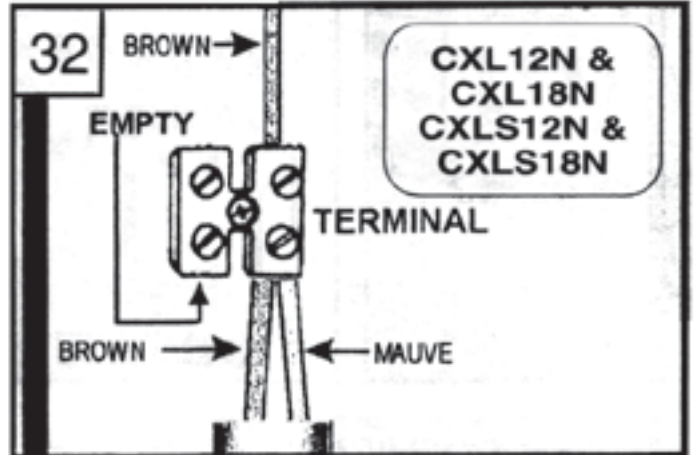
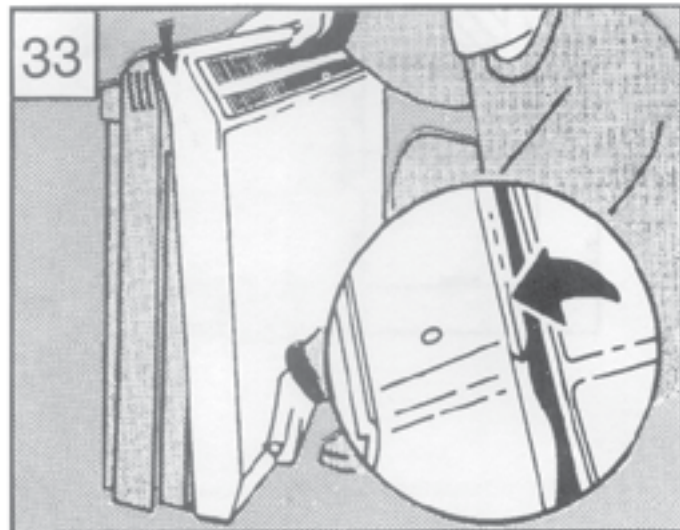
#Note: if the heater is situated underneath a shelf or overhang up to 250mm high, then the brown wire only should remain in circuit.



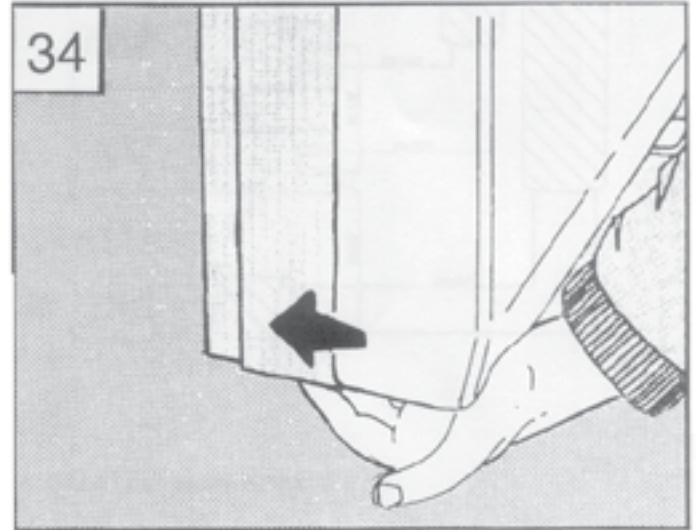
31. Check that the damper mechanism within the heater functions freely, by rotating the left hand control knob. Check also that the right hand (input) knob rotates freely.



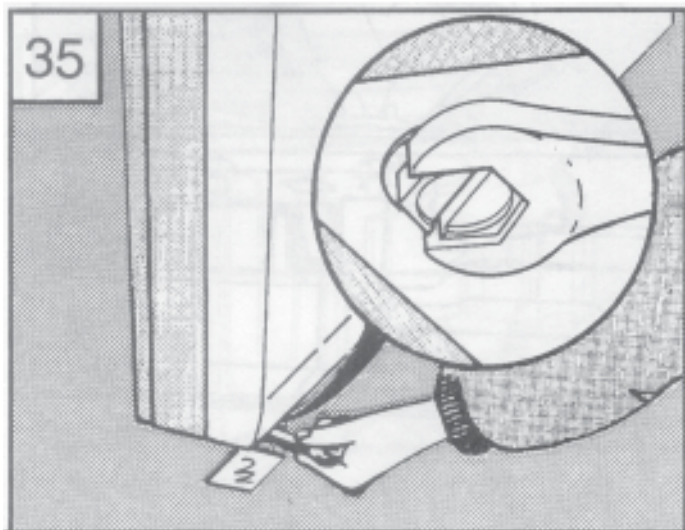
33. Holding the bottom edge of the front panel towards you, locate the top edge of the front panel in the groove at the top of the heater and ensure that the locating pegs on the rear flanges of the front panel are located in the receiving holes in each side panel.



34. Push the bottom of the front panel towards the heater, such that the bottom flange locates under the base.

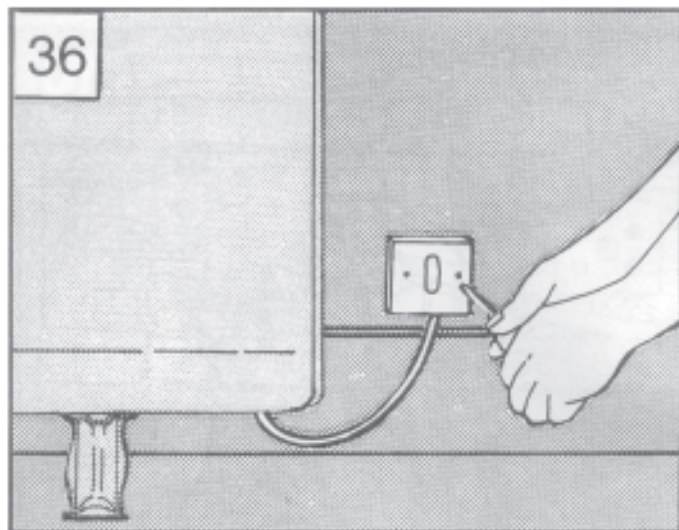


**35.** Replace the two front panel securing screws removed in operation 15. A small mirror placed on the floor under the heater will help location of the threaded holes in the base. These may be screwed in by hand most of the way, but should then be tightened using an 8mm AF socket or open ended spanner.

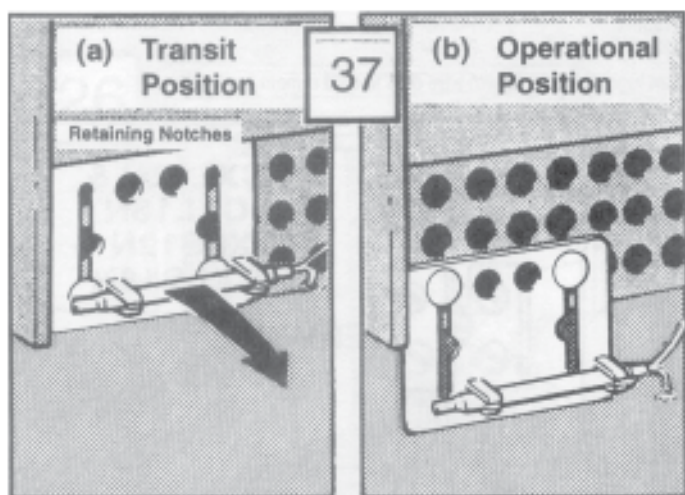


**36.** Ensuring the electricity supply is disconnected, connect the free end of the mains cable to a suitable double-pole switch adjacent to the appliance - reinstate the electricity supply.

**NOTE:** The double pole switch must have a contact separation of at least 3mm in all poles.



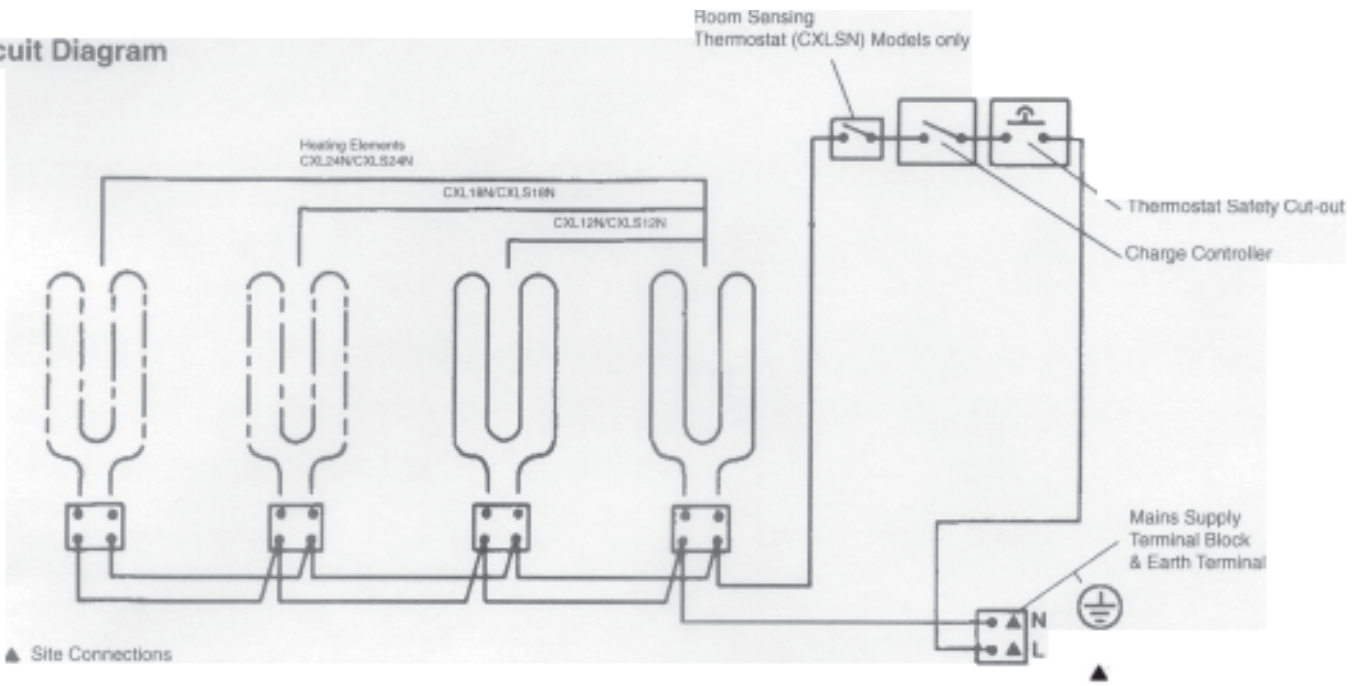
**37. IMPORTANT CXLS Models only - Locating the external sensor**  
The sensor is situated at the rear of the lower right corner of the heater.



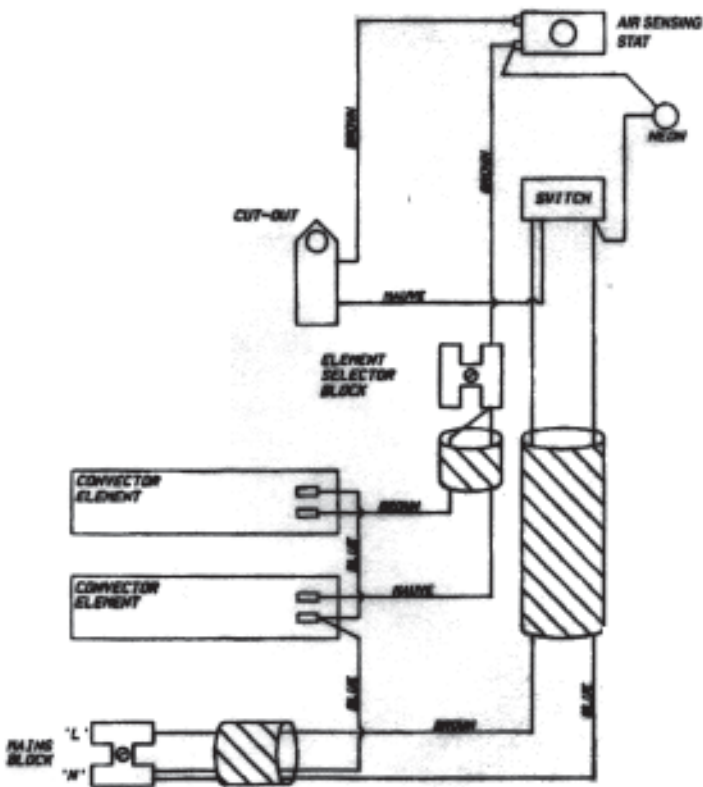
a) Remove sensor carefully from its retaining clips and move to one side.  
b) Slide down plastic sensor carrier as far as it will go so that the two plastic fixings are above the retaining notches. Replace sensor carefully in its retaining clips.



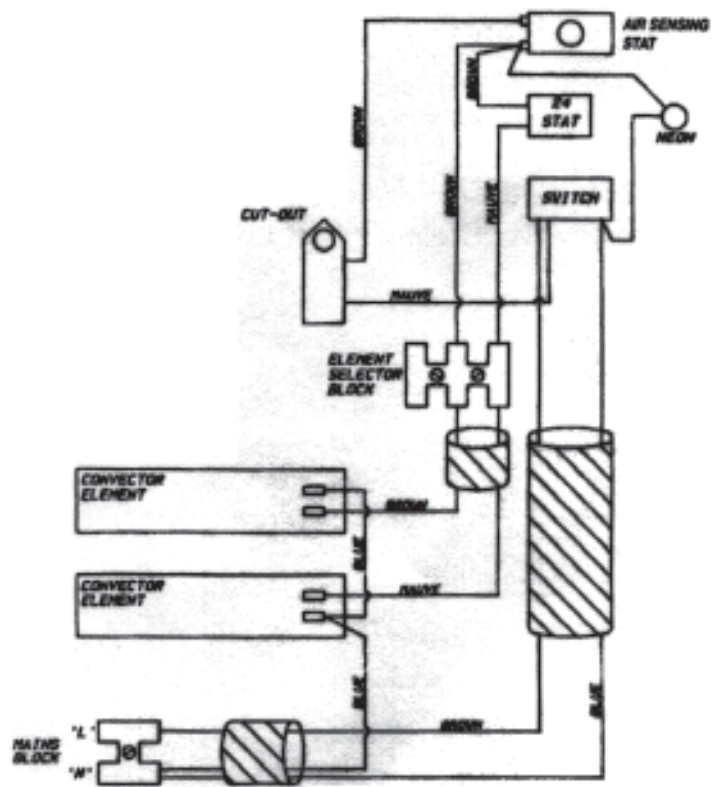
# Circuit Diagram



## Peak Circuit Diagram - CXL12N & 18N CXLS12N & 18N



## Peak Circuit Diagram - CXL24N CXLS24N



## Matching Heaters in the Dimplex collection:

### XLN/XLSN Storage Heaters

Especially suitable for living rooms, dining rooms, halls, landings.



XL12N  
XLS12N  
1.7kW



XL18N  
XLS18N  
2.55kW



XL24N  
XLS24N  
3.4kW



XL6N  
XLS6N  
0.85kW

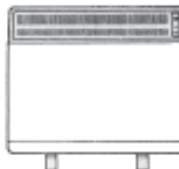
### XL/XLS6N Mini Storage Heater

Especially suitable for small bedrooms, hallways, landings, kitchens and bathrooms.

### CXLN/CXLSN Combined Storage Convector Heaters



CXL12N  
CXLS12N  
1.7kW



CXL18N  
CXLS18N  
2.55kW



CXL24N  
CXLS24N  
3.4kW

### PLX Panel Heaters

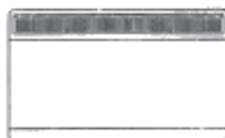


PLX500  
PLX500TI  
PLX500WTI  
PLX500NC  
500 watts



PLX750  
PLX750TI  
PLX750NC  
750 watts

PLX1000  
PLX1000TI  
PLX1000WTI  
PLX1000NC  
1000 watts



PLX1250  
PLX1250TI  
PLX1250NC  
1250 watts

PLX1500  
PLX1500TI  
PLX1500WTI  
PLX1500NC  
1500 watts



PLX2000  
PLX2000TI  
PLX2000WTI  
PLX2000TX  
PLX2000NC  
2000 watts



PLX3000  
PLX3000TI  
PLX3000TX  
3000 watts

### FX Range Wall Mounted Fan Heaters

Especially suitable for bathrooms\*, kitchens, studies, etc.

FX20V  
2 kW fan heater  
with pull cord.

FX20VE  
2 kW fan heater  
with energy saving  
switch-off.

FX20VL  
2 kW fan heater  
with thermostatic  
control designed  
for low level  
mounting.

*\*When installed in accordance with IEE wiring regulations.*

### Fuel Effect Fires

Especially suitable for living rooms

Dimplex produce a wide range of Fuel Effect Fires to complement any living room. A number of models feature the astonishingly realistic Optiflame\* real flame effect. Styles range from the traditional stove to ultra modern, with a wide range of heat sources too — radiant, convector or fan. Full details and colour brochure available from Dimplex on request. \*Optiflame U.K. Patent No. 2180927 and further patent applied for.

A full range of additional matching portable heaters is available from Dimplex - Details on request.

This appliance complies with the European Standards EN 60 335-1, EN 60 335-2-61, EN 61096-3-2, EN61096-3-3, EN55014 and EN55104 for Safety and Electromagnetic Compatibility.

These standards cover the requirements of the EMC Directives 89/336 and 73/23.

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T9104/512D

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0870 0777 117