

## Installation and Operating Instructions

# Storage Heaters

### Highlighted text to be used on diagrams/photos.

Wiring Diagram

Charge Control Thermostat

Limit Thermostat

Element

Elements

Restricted Off-Peak Electricity Supply

**PLEASE READ THIS LEAFLET CAREFULLY AND RETAIN FOR FURTHER USE. NOTE ALSO THE INFORMATION GIVEN ON THE HEATER**

### **IMPORTANT**

- The installation must be carried out by a competent electrician and should be in accordance with I.E.E. Regulations.
- A Double Pole Switch with a contact separation of at least 3mm on each pole must be provided in the installation.
- The heater is not suitable for connection to a 30A ring circuit.
- Do not position the heater under windows where curtains can contact the heater casing.
- **WARNING - THE SURFACES ON THIS HEATER CAN BE HOT.**
- This heater meets EN60-335 safety requirements. However, any heater type becomes hot in normal operation.

Care must be taken to ensure that prolonged skin contact with the heater does not occur.

WHERE YOUNG CHILDREN, INFIRM PERSONS, OR THE AGED ARE PRESENT THIS APPLIANCE MUST BE ADEQUATELY GUARDED. Contact your installer or the manufacturer for further advice.

- This appliance is very heavy and must be securely fixed to a wall. DO NOT UNDER ANY CIRCUMSTANCES ATTEMPT TO MOVE OR REPOSITION THIS HEATER WITHOUT SEEKING EXPERT ADVICE.

- IMPORTANT - Due to the newness of materials the heater will produce a slight smell for the first few days of operation.

ROOMS MUST BE WELL VENTILATED AND YOUNG CHILDREN, CAGED BIRDS, OR PERSONS WITH RESPIRATORY COMPLAINTS MUST NOT REMAIN IN CLOSE PROXIMITY TO THE HEATER DURING THE FIRST 48 HOURS OF THE COMMISSIONING PERIOD.

- 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 BY AN IDENTICAL PART.

## **INSTALLATION INSTRUCTIONS**

### **PREPARATION**

The heater will arrive separately from its bricks. The following bricks are required to complete the installation of this heater.

Brick Ref: 2ND8 800

Model 2ND5008 - 4 BRICKS

Model 2ND5017 - 8 BRICKS

Model 2ND5025 -12 BRICKS

Model 2ND5034 -16 BRICKS

## **WARNING THIS APPLIANCE MUST BE EARTHED**

Only heat resisting cable (min. rating T85) should be used. The wires in the mains cable will be coloured as follows:-

**GREEN & YELLOW - EARTH**

**BLUE - NEUTRAL**

**BROWN - LIVE**

### **SUGGESTED FIXINGS**

**SOLID BRICK/BLOCK:** No. 10 Rawlplug fibre inserts, 5.5mm drill bit. Drill hole 6mm deeper than rawlplug length.

**PLASTERBOARD** - If possible locate studding and use No. 10 woodscrews directly into the wood, otherwise M5 rawlplug intersets are suitable.

**NOTE: FOR OTHER WALL TYPES**

(e.g. Timber frame and hollow concrete)

**SEEK SPECIALIST ADVICE.**

## FIXING ASSEMBLY

### 1. ENSURE THAT FIXING KIT AND FEET HAVE BEEN LOCATED BEFORE DISPOSING OF PACKAGING.

#### SLOTS

2. Fit the feet with the open end of the foot to the front of the heater. Secure each foot by sliding it onto the base of the heater using the slots provided.

3. Place the heater on its feet and in the desired position against the wall. Ensure the heater is based on a firm level surface at least 75mm from any end wall and at least 250mm below any shelf or similar projection. Cut away any gripper rod or carpet which would prevent the heater sitting firmly on the floor.

4. Mark the position of the two outside corners of the wall bracket with the heater pushed tight against the wall. Remove the wall bracket from the heater by removing the screw at each end. Place the heater to one side and reposition the bracket against the wall using the corner marks for alignment. Four fixing positions must be chosen for the 2ND5034, three for the 2ND5025 and two for the 2ND5017, 2ND5012 and 2ND5008. Mark the positions for the fixing holes - two at the extreme ends and the others spaced evenly between them. Remove the bracket from the wall, drill the holes in the positions marked, and insert suitable fixings previously described. Secure the wall bracket to the wall.

5. If mains connection is to be made from the left side, at this point the mains lead must be secured to the back of the heater using ties provided in the fixing kit.

**You must fit a retaining screw at each end of the heater.**

**Inner Slot**

**Outer Slot**

**No Skirting Board**

**110mm Skirting Board**

### 6. THE FOLLOWING MUST BE APPLIED WHEN FIXING THE HEATER TO THE WALL BRACKET

- i) If no skirting board is present secure the heater through the wall bracket slots closest to the wall.
- ii) If 100mm (4in.) skirting is present secure the heater through the outer slots.

iii) If skirting taller than 150mm (6in.) is present this must be reduced to 150mm (6in.) over the entire width of the heater plus 25mm (1in.) at each end.

Do not fully tighten these screws until the bricks are loaded into the heater as some settling of the heater may occur.

**NOTE: NEVER REMOVE THESE SCREWS WITHOUT FIRST UNLOADING THE HEATER.**

7. Remove the front panel and end caps together by removing the self tapping screws along its top and bottom edges. Gradually swing the bottom of the front panel outwards until the ends caps become detached from the heater, the front assembly can then be lifted clear and set to one side. The packing which had been sandwiched between the inner front and outer front can be discarded.

8. Remove the inner front by removing the screws along its top and sides. As the front insulation is attached care must be taken when lifting this panel from the heater and placing it to one side. Remove the internal packing by sliding it up and off the elements taking care not to damage the insulation.

9. Lift out the elements from the base insulation, rotate forwards and rest on top of the internal packing removed from around the elements. Models 2ND5008 and 2ND5012 have one element, Model 2ND5017 has two elements, 2ND5025 have three elements and 2ND5034 has four elements.

10. Carefully fit the bottom row of the back layer of bricks (for Models 017/ 025/034 place the two end bricks in position first). Ensure the recess is towards the element. Fit the top row of bricks also with the recess towards the element.

11. Carefully refit the elements by feeding the tails down through the hole in the base insulation ensuring the tabs are pointing forwards.

12. Fit the front layer of bricks again with the recess towards the element.

The complete core will comprise:

Brick columns

2ND5008 - 1 x 4

2ND5012 - 1 x 4

2ND5017 - 2 x 4

2ND5025 - 3 x 4

2ND5034 - 4 x 4

13. Replace the inner front complete with insulation by locating its bottom edge behind the front lip of the chassis and inserting retaining screws along the top and both sides.

14. For models 2ND5012, 2ND5017, 2ND5025 and 2ND5034 only, check that the flap mechanism operates freely on its hinges and that with the output control set to 1 the flap is correctly seated in its closed position.

15. Feed the mains cable through the cable clamp and make connections as marked on heater. Pull back any slack through the clamp and tighten clamping screw.

**WARNING This appliance must be earthed**

16. Replace outer front panel and end caps by hooking the end caps into its retaining slot on the side panels and lowering it into position. Secure the front panel with the self tapping screws along its top and bottom edges.

17. Check that the screws securing the heater to the wall bracket have been fully tightened.

**IT IS ESSENTIAL THAT ALL SCREWS ARE REPLACED TO ENSURE EARTH CONTINUITY.**

Once installed do not attempt to reposition the heater without first obtaining the services of a competent electrician.

**Two Fixing Screws**

## Model 2ND5008 OPERATING INSTRUCTIONS

### Thermal overload protection

This appliance is protected by a thermal safety cutout which will operate to isolate the electricity supply if, for example, the heater surfaces or grille are obstructed to cause overheating.

The cutout should not operate if the instructions given in this leaflet and clearances regarding positioning are strictly followed.

***However, if the cutout has operated before following the instructions below determine the cause of the cutout operating. If the heater has not obviously or inadvertently been misused - e.g. covered - it will be necessary to have the appliance fully checked by a Service Agent.*** (A list of Service Agents is enclosed and should be retained by the user).

### Thermostat & Thermal Cutout

### Cutout Reset Button

## OPERATION

Siemens 2ND5008 Storage Heaters store heat overnight using cheap off peak electricity and discharge this heat the following day. The heater is preset at the factory to always take a full charge. These operating instructions assume that the correct size of storage heaters have been selected to cater for the heating requirements of the room.

## **MODELS 2ND5012/017/025/034 OPERATING INSTRUCTIONS**

### **SAFETY INSTRUCTIONS**

- 1. Ventilate rooms well during commissioning**
- 2. Do not move the heater in any way once installed without the services of a competent electrician.**
- 3. Do not cover the heater with clothing etc. at any time or position furniture close to or against the heater.**
- 4. Ensure a clearance of at least 150mm between heaters and curtains.**
- 5. Floor standing heaters must only be fitted with the back against a wall.**
- 6. Should your heater fail to operate either contact a Service Agent or employ the services of a competent electrician. (A list of Service Agents is enclosed and should be retained by the user).**

**ALSO REFER TO PAGE FOUR**

### **COMMISSIONING**

**Set both the Input Control and the Output Control to 6 and leave the heater for 48 hours. Following the commissioning period adjust the controls as stated below.**

### **SETTING THE CONTROLS**

The controls are located at the top right hand corner of the heater.

### **INPUT CONTROL**

Initially set the input to 4. If the heater does not maintain a satisfactory room temperature the following day this setting should be increased. Conversely if the room temperature is too high this setting should be reduced. The input control should only require seasonal adjustments.

### **THE OUTPUT CONTROL**

Most of the stored heat is radiated from the casing during the discharge period. However, some of the heat is emitted through the grille at the top of the heater and this additional heat (or boost) is regulated by the Output Control.

With this set to 6 the boost begins in the early afternoon. Turning the control towards 1 will progressively delay the commencement of the boost. At 3 the boost will start in the evening. Once set, the boost will repeat itself automatically day after day.

If no boost is required e.g. when the room will be unoccupied for a long period, set the Output Control to 1. With the control in this position, the heater will take less energy during the next charging up period.

## **CLEANING**

To maintain the appearance of the heater wipe occasionally with a dry cloth when the heater is cool.

Do not use abrasive powders or furniture polish.

## **Text required for Labels/Screenprinting etc.**

**Input**

**Output**

**Do Not Cover**

**Storage Heater**

**Model**

**Charge Period**

**Weight**

**Bricks required for this model**