

### Coldwatcher MPH500 / 1000

Issue. 2 29/1/96 T8839/801/C

**IMPORTANT: THESE INSTRUCTIONS SHOULD BE READ CAREFULLY AND RETAINED FOR FUTURE REFERENCE.**

Check that the supply voltage details on your heater are in accordance with your electricity supply. The heater is fitted with a rewirable plug incorporating a 13 amp fuse. In the event of replacing the fuse in the plug supplied, a 13 amp fuse approved by ASTA to BS 1362 must be used.


**IMPORTANT**

If the plug is not suitable for your socket, the 13 amp plug should be removed. Before wiring the appropriate plug please note the following code.

GREEN AND YELLOW : EARTH  
 BLUE : NEUTRAL  
 BROWN : LIVE

**WARNING: THIS APPLIANCE MUST BE EARTHED.**

As the colours of the wires in the mains lead may not correspond with the coloured marking identifying the terminals in your plug, proceed as follows:

Connect the GREEN AND YELLOW wire to the plug terminal marked E, or the earth symbol  or coloured GREEN or GREEN and YELLOW. Connect the BLUE wire to the plug terminal marked N or coloured BLACK. Connect the BROWN wire to the plug terminal marked L or coloured RED. If a 3 pin 15 amp plug is used this should be protected by a 15 amp fuse either in the plug or adaptor or at the distribution board. IF IN DOUBT CONSULT A COMPETENT ELECTRICIAN. Your heater is now ready for use and may be plugged into a wall socket.

If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.

**General**

The Dimplex Coldwatcher multi-purpose heater model MPH500 has an output of 500 watts, and Model MPH1000 has an output of 1000 watts. Both are controlled by a variable thermostat with a minimum setting suitable for frost protection. They are specially designed for situations where localized heating is needed, or where a small heater is only necessary for general heating or frost protection.

The coldwatchers are versatile and robust units ideal for greenhouses, lofts, garages, utility rooms, sheds, chalets, spare rooms, conservatories, airing cupboards, outside WCs, kiosks, yachts, checkouts, etc.

**THIS APPLIANCE MUST NOT BE USED IN A BATHROOM.**

Suitable for fixed mounting on the wall or floor, they can also be used free-standing in a vertical or horizontal position. For maximum heating effectiveness the heater should be positioned as low as possible within the area to be heated.

**Note:** If the heater is to be used unattended for long periods (e.g. in lofts) it should be permanently mounted in accordance with the fixing instructions given below.

**IMPORTANT - DO NOT COVER THE HEATER**

Do not place material or objects on the heater or obstruct the air circulation around the heater as this could create a fire risk.

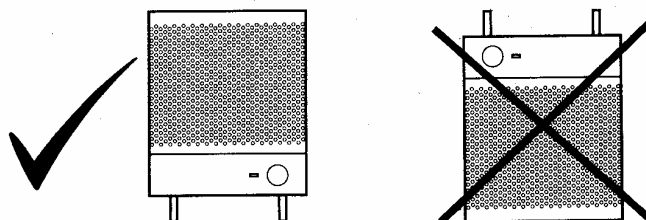
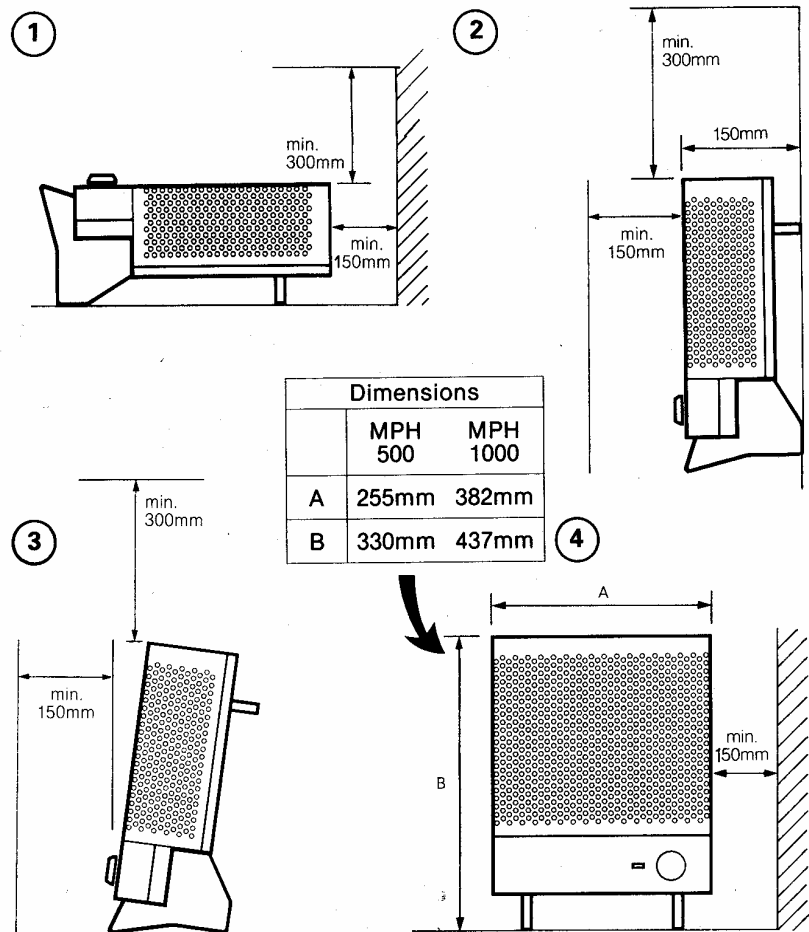
**HEATER DIMENSIONS AND MINIMUM OPERATING DISTANCES (see diagrams opposite)**

1. Horizontal mounting, fixed or portable: Minimum horizontal distances from sides and end of heater to obstruction. Minimum vertical distance from top of heater to shelf or overhanging obstructions.
2. Wall mounting: Minimum vertical distance from top of heater to shelf or overhanging obstruction. Minimum horizontal distance from front of heater to obstruction.
3. Vertical mounting; portable operation: Minimum vertical distance from top of heater to shelf or obstruction. Minimum horizontal distance from front of heater to obstruction.
4. Wall mounting or portable: Minimum horizontal distance to side wall or obstruction.

**Note 1** - For maximum heating effectiveness the heater should be positioned at low level. **Note 2** - We recommend that the heater is not fitted into an unventilated enclosure which is less than 10 cubic feet.

**IMPORTANT**

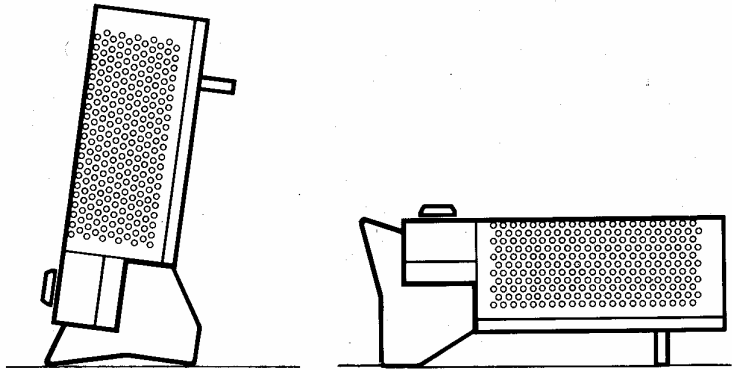
if wall mounted the heater should be mounted only in the upright position with the control panel at the bottom.



## Free Standing/Portable Use

The heater may be used free standing in either the upright or lay-flat position as shown. The heater incorporates a permanently fixed wall mounting bracket for use when the heater is installed as a fixed appliance, and which acts as a stand when in either position. Reference should be made to the section "Heater Dimensions and Minimum Operating Distances" before use.

**WARNING - IF THE HEATER IS FREE STANDING IT MUST NOT BE USED IN THE IMMEDIATE SURROUNDINGS OF A BATH, A SHOWER OR A SWIMMING POOL**



## FIXING THE HEATER

The heater may be fixed to the wall or floor using the fixing holes provided in the mounting frame. Please refer to the Section "Heater Dimensions and Minimum Operating Distances" before fixing the heater in position.

### Fixing to the Wall

**WARNING - The heater must NOT be located immediately below a fixed socket outlet**

The heater must be fixed only in the upright position with the control panel at the bottom. The position of the two upper fixing points should first be marked on the wall, at a horizontal distance of 100mm apart, Diagram A. Place the heater in position with the upper wall bracket notches against these fixing points to check that the heater complies with the "minimum operating distances". These two fixing points should then be drilled and plugged. Suitable round headed size 8 screws should be fixed in these positions to such a depth that the heater may be hung in position while the positions of the lower fixing holes are marked, Diagram B. The heater should then be removed while the lower fixing holes are drilled and plugged. Then the heater should be hung in position on the upper two screws while the lower two screws are tightened to hold the heater firmly on the wall. The tightness of the upper screws should be adjusted if necessary to ensure a firm fit.

Diagram A

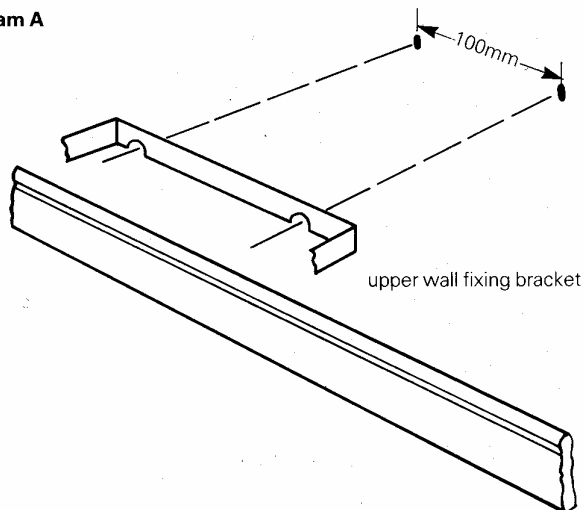
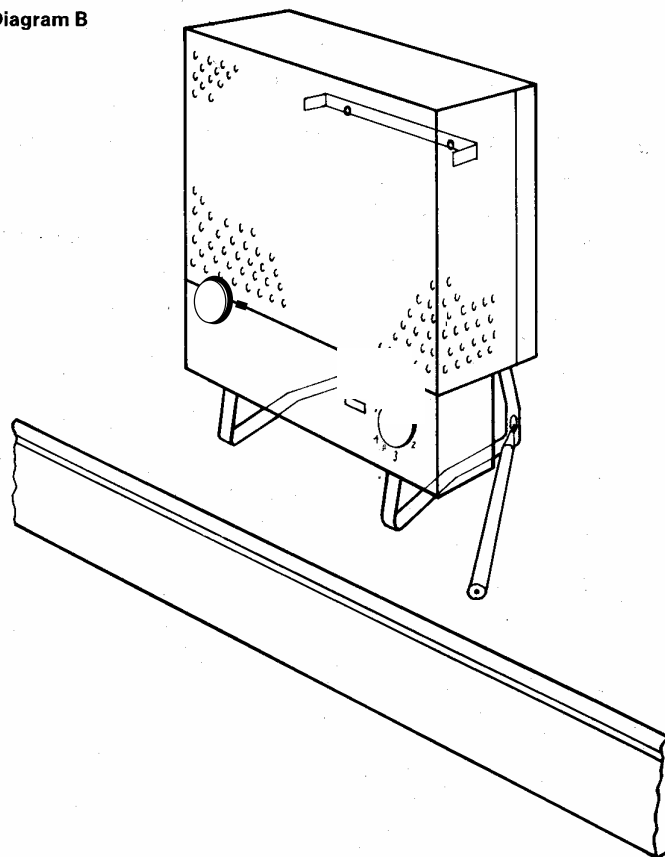


Diagram B



### Fixing to the Floor

The heater may be fixed to the floor in the lay-flat position. Before fixing the heater in position place it in the desired position and check that it complies with the requirements described in the section "Heater Dimensions and Minimum Operating Distances". For guidance on fixing the heater see the section on "Fixing to the Wall". The principles involved are the same.

## USING THE CONTROLS

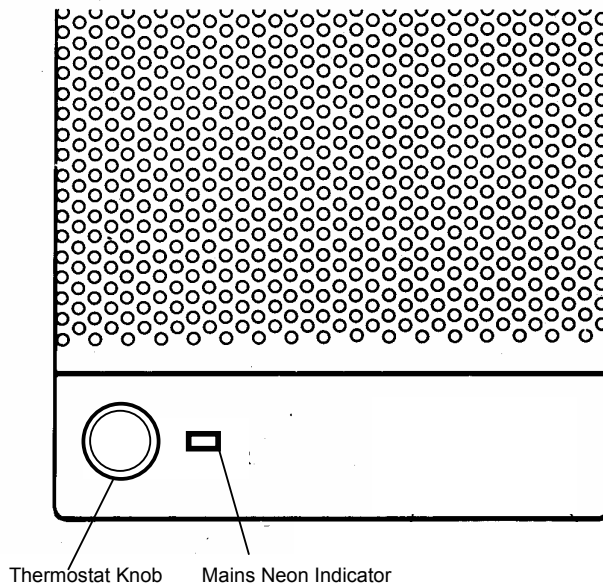
### Neon Indicator

When your heater is plugged in and switched on at the mains, the neon indicator will glow showing that the heater is available for use, although the heating element may not be energized, depending on the setting on the thermostat knob:

### Thermostat

The thermostat knob is calibrated with a scale marked \* and 1-5. The lowest setting \* represents a temperature of approximately 5°C and is suitable for frost protection on use. (See section headed "Using the Heater for Frost Protection").

The other settings represent a range of temperatures dependent on a number of factors including the size of the area to be heated and the outside temperature. Actual settings should be found by experience for each set of conditions. The heater will **not** emit heat if the temperature of the air surrounding the heater is above that set on the control knob, although the mains neon indicator will glow showing that the heater is available for use. The heating element will energize if the thermostat knob setting is increased, as indicated by an audible "click" when the thermostat knob is turned.



### Thermal Overload Cut-Out

In case the heater should, for any reason, overheat (for example, if it is inadvertently covered) a resettable thermal overload cut-out is incorporated for safety reasons.

If the heater should overheat the Cut-Out will operate, isolating the heating elements from the electricity supply.

### Re-setting the Cut-Out

If the cut-out operates for any reason first disconnect the heater from the electricity supply by removing the plug from the socket. Examine the heater to find the cause of the overheating and rectify if possible. If in doubt as to the cause you should consult a competent person with experience of repairing domestic electrical appliances and in full knowledge of the possible hazards involved. Once the cause of the overheating has been rectified the cut-out may be re-set by plugging the appliance back into the mains supply. The heater will automatically resume normal operation.

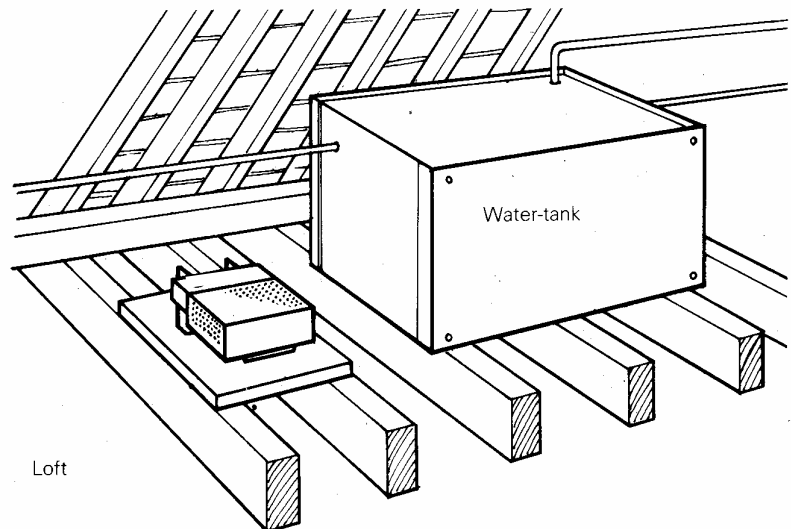
### Using the Heater for Frost Protection

The Heater may be used to protect water-tanks, pipes and other frost-sensitive areas by setting the thermostat to the Frost position. When the thermostat is set at this position the heater elements will emit heat only when the temperature in the vicinity of the heater falls to below approximately 5°C.

The heater will continue to emit heat until the surrounding air again reaches approximately 5°C and will then switch off until the temperature falls again. In this way, frost protection will be provided in the area surrounding the heater.

The Heater will also guard against frost in a confined space such as a small greenhouse (see section covering greenhouses, etc) or unheated WC, provided the volume of the space in which it is installed is appropriate to its heat output.

### Using the Heater in a Greenhouse



**THE ELECTRICITY SUPPLY TO A GREENHOUSE SHOULD BE INSTALLED BY A COMPETENT ELECTRICIAN IN ACCORDANCE WITH THE IEE WIRING REGULATIONS. IT IS RECOMMENDED THAT RESIDUAL CURRENT CIRCUIT BREAKER (RCCB) PROTECTION IS USED.**

The heat output of the MPH500 is similar to that of a small single burner greenhouse paraffin stove and the MPH1000 has an output similar to that of a small double burner paraffin stove. However, both have the advantage that they may be switched on overnight as a precaution against frost with the knowledge that they will not consume current on the frost setting unless the temperature in the vicinity of the heater falls below approximately 5°C. If only one heater is being used in a full size greenhouse, it will be necessary to partition off that which requires frost protection, using for example heavy duty polythene sheeting, which can also be used to line the glazing of the greenhouse to reduce heat losses and therefore power consumption.

As a guide to the effectiveness of a single MPH500 Coldwatcher in a greenhouse, it will raise the temperature of the shaded section of the greenhouse by approximately 8 – 9 °C. The MPH1000, however, would raise the average temperature of the whole greenhouse shown by Approximately the same level. For example, if the outside temperature is -2°C the MPH500 should be able to keep the temperature at 6-7°C within the partitioned off section. If higher temperatures are required then the volume partitioned off should be made smaller. In this respect the only accurate method is to set the thermostat to the position which keeps the temperature at the desired level by using a maximum/minimum thermometer, positioned in the most critical part of the area to be heated. Although the heater is designed to be splash-proof it is recommended that it be removed during periods when spraying is being carried out in the greenhouse.

**Using the heater in an Airing Cupboard**

The heater is suitable for use in an airing cupboard where there is no other heat source, or where the hot water cylinder is so well insulated that insufficient heat is available for airing clothes.

The airing cupboard should be ventilated by means of vents for example in the upper and lower parts of the door. This will allow circulation and removal of moisture laden air.

The heater should be positioned in the lower part of the airing cupboard.

**IT IS IMPORTANT THAT PRECAUTIONS ARE TAKEN TO PREVENT CLOTHES FROM FALLING ON TO THE HEATER CAUSING IT TO OVERHEAT.**

This could take the form of a wire mesh positioned across the lower part of the airing cupboard not less than 300mm above the heater. (Also refer to “Heater Dimensions and Minimum Operating Distances”).

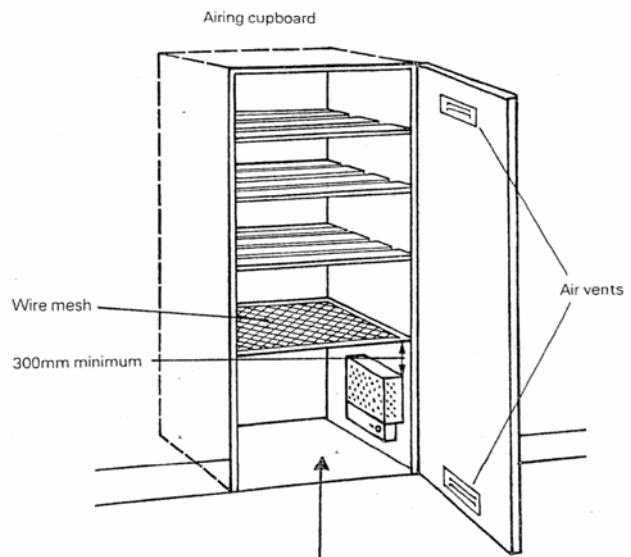
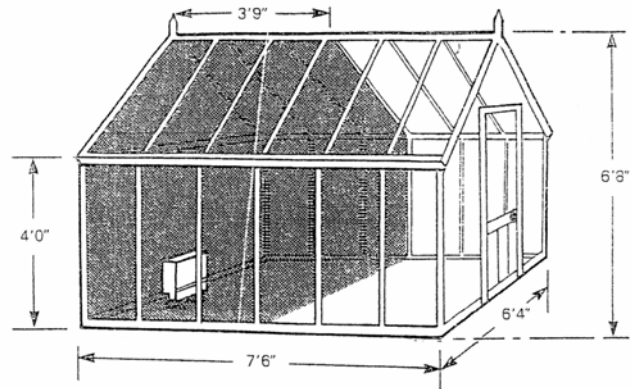
**After Sales Service**

Your product is guaranteed for one year from the date of purchase. We undertake to exchange or repair free of charge within this period, any part found to be defective due to a manufacturing fault. This guarantee in no way prejudices your rights under common law.

Should you require after sales service, please contact the supplier through whom you purchased the appliance or your nearest Dimplex Service Agent.

Please do not initially return a faulty appliance or part of an appliance to us as this may result in transit damage and/or delay in providing service. Let us know your difficulty quoting the details shown on the rating label, and we will then take the appropriate action.

**CE** The product complies with the European Safety Standards EN60335-2-30 and the European EN5501 4, N60555-2 and EN60555-3 for Electromagnetic Compatibility. This standards cover the requirements of EEC Directives 73/23 and 89/336.



Clothing, bed linen or similar items **must** not be stored in this space if there is **any** possibility of their falling on to or against the heater or coming within 150 mm of the front or sides of the heater. A clear space of 300 mm **must** similarly be left above the heater.

If this space is to be used for storing such items, a further mesh should be fixed not less than 150mm from the front of the heater.

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