

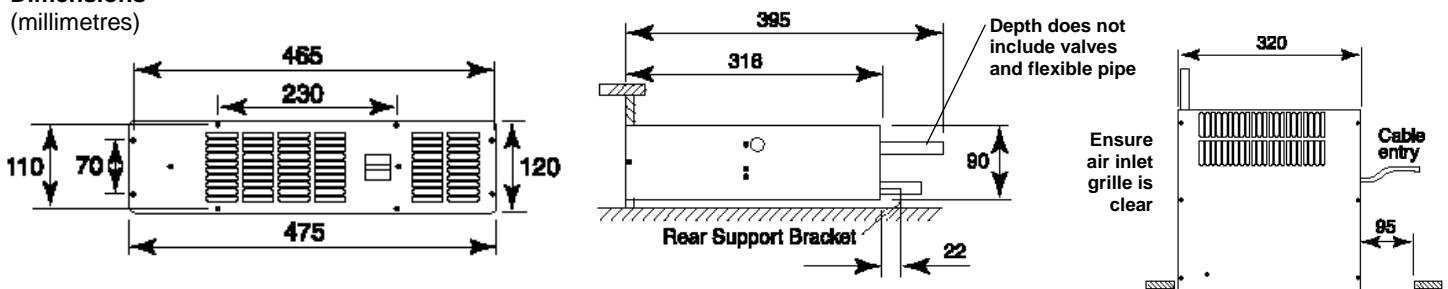
### Hydronic Base Unit Heater

08/18304/2 (30/04/09) Issue 2

Model: BUH19BWS



#### Dimensions (millimetres)



THESE INSTRUCTIONS SHOULD BE READ CAREFULLY AND RETAINED FOR FUTURE REFERENCE

### IMPORTANT SAFETY ADVICE

When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electrical shock, and injury to persons, including the following:

- **WARNING THE SURFACES OF THIS HEATER CAN BE HOT**
- This appliance is not intended for use by children or other persons without assistance or supervision if their physical, sensory or mental capabilities prevent them from using it safely. Children should be supervised to ensure that they do not play with the appliance.
- If you use this heater in conjunction with an external thermal control, a programme controller, a timer or any other device which switches the heat on automatically, observe all safety warnings AT ALL TIMES since a fire risk exists when the heater is accidentally covered or displaced.
- The installation of this product should be carried out by an electrician or competent person and be in strict accordance with the current IEE Wiring Regulations and relevant Building Regulations.
- NEVER cover or obstruct in any way the heat outlet slots at the front of the heater or the air inlet slots at the top and rear of the heater.
- DO NOT cover the heater – Do not place material or garments on the heater or obstruct the air circulation around the heater
- Before connecting the heater check that the supply voltage is the same as that stated on the heater.
- The heater must be installed in accordance with these instructions.
- The heater should be installed and operated in the horizontal position as shown in diagram above.
- The heater should be positioned in accordance to the clearances stated in these instructions.
- DO NOT locate this heater immediately beneath a fixed socket outlet.
- This appliance must be earthed.

### General

This heater has been designed for fitting in the space behind the plinth of floor standing kitchen units or other fitted furniture units. It is recommended that the heater is not installed under cupboards used for storing perishable goods.

This heater may be fitted in place of or in addition to existing radiators. Using the hot water from the central heating system and a powerful electric faint will produce an average 2.0kW of heat into the room.

### Installation

The heater is more easily fitted during the installation of new furniture units, or in existing furniture units if they can be temporarily moved from their position against the wall. If an existing furniture unit cannot be moved, then it may be necessary to remove the back of the unit in order to gain access to carry out the wiring installation.

Before installing the unit consider the location with respect to the following:

- The product has a depth of 395mm, the length of the valves and flexible cable should also be taken in to consideration.
- The electrical supply and cable length.
- Position of system pipework and flexible hose length.
- Position the heater to deliver heat effectively without causing personal discomfort from overheating while standing at work surfaces etc.
- If the overhang above the heater is greater than 75mm, then a distance of at least 100mm must be maintained between the overhang and the uppermost part of the heater (see Fig. 1 below).

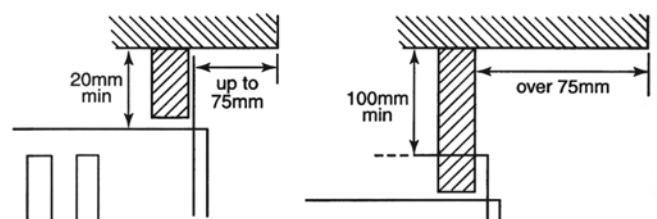


Fig. 1

## Central heating design system

1. When fitting the appliance onto a central heating system check that the boiler is capable of delivering extra heat into the appliance by resizing the system. The appliance will add an average of 2kW (6,830 Btu/Hr) onto the boiler sizing.
2. Due to the low water content of the heat exchanger in the appliance compared to a panel radiator system, an adequate flow of water should be maintained to compensate for rapid cooling of the water as it passes through the exchanger i.e. maximum efficiency is gained if the appliance is placed as near to the boiler as possible to give the maximum pressure head across the appliance.

## Installation procedure

Ensure that all packing items are removed (read any warning labels carefully). Retain all packing for possible use, in the event of moving or returning the heater to your supplier.

## Cutting the aperture in the plinth

Cut aperture in furniture unit plinth to dimensions shown. This must be positioned so that the minimum distance from the bottom of the aperture to the top surface of any floor covering is not less than 12mm and not more than 25mm (see Fig. 2).

If an overhang above the heater is greater than 75mm, then a distance of at least 100mm must be maintained between the overhang and the uppermost part of the heater.

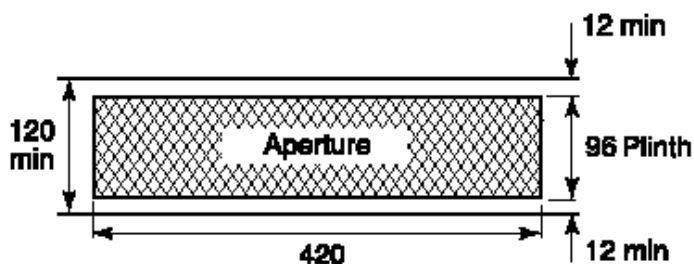


Fig. 2 (all dimensions in mm)

## Water Connections

**WARNING:** Do **NOT** connect electricity supply when making water connections.

Connect the flexible pipes to the system flow and return pipes.

The appliance terminates in 15mm pipe tails (top pipe flow – bottom pipe return). Connect the valve ends of the flexible pipe to the rear of the appliance. (Note: The direction of flow arrows on the valves are not significant in this application.) (see Fig. 3).

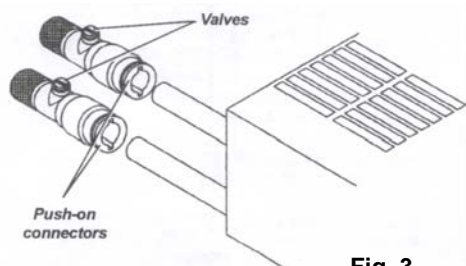


Fig. 3

Fill and vent the system and bleed the air out of the heat.

exchanger using the bleed screw provided (located at the top of the flow pipe). (see Fig. 4).

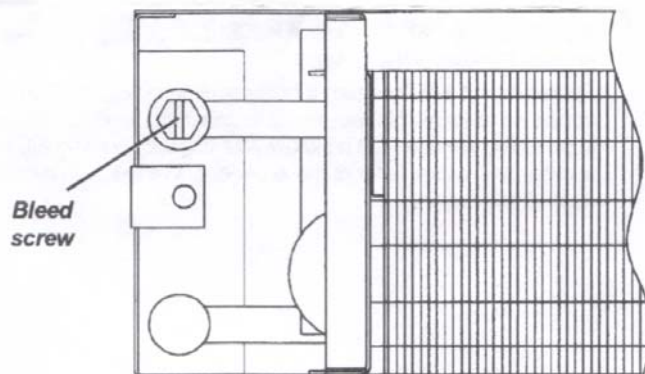


Fig. 4

Close the vent and check the appliance for water leaks. If any water escapes from the bleed screw ensure it does not fall onto any electrical wiring or connections. After bleeding the appliance ensure that electrical controls are completely dry before connecting to the power supply.

## Power supply connection

### WARNING: THIS APPLIANCE MUST BE EARTHED

This heater must be used on an AC~ supply only and the voltage marked on the heater must correspond with the supply voltage.

The installation of this appliance should be carried out by an electrician or competent person in strict accordance with the current IEE Wiring Regulations and relevant Building Regulations.

Before undertaking installation work, ensure the electricity supply is disconnected from any relevant wiring.

The appliance is fitted with 2 meters of flexible cable 3 x 0.75mm<sup>2</sup> for electrical connection. The cable may be used to connect the heater to the fixed wiring of the premises through a suitable connection box. The supply circuit to the heater must incorporate a double pole isolating switch having a contact separation of at least 3mm. The power supply cable should be routed through the plinth space to the connection box, ensuring that the cable is left with enough slack to allow removal of the appliance for maintenance. The cable must be protected from any sharp edges.

## Fitting the rear support bracket

The heater is supplied with a rear support bracket. Fit to the back of the appliance with the two black screws supplied. Adjust the rear support bracket so that the vertical distance from the underside of the appliance to the bottom of the rear support bracket equals the vertical distance from the floor in the cupboard space to the bottom of the aperture opening. The slots in the rear of the support bracket allow it to be adjusted to the required height.

## Marking the fixing positions

Slide the heater in to position in the plinth aperture with the front edge just behind the line of the plinth.

Note: Ensure that flexible pipes are not kinked and that the electrical cord is not in contact with hot surfaces.

Replace the plinth and bring the appliance forward so that the front edge slightly projects through the plinth.

Position the grille in front of the heater and fix with two screws (smaller screws).

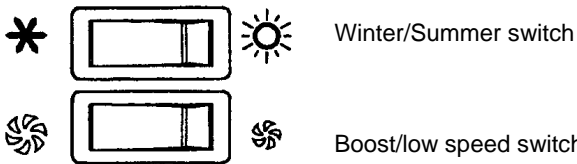
Mark the eight fixing holes (two on each side, two on the top and two on the bottom). Remove the grille and drill 2mm pilot holes.

## Mounting the heater in to the plinth

Make sure the heater is adequately supported and that the air inlet slots are not obstructed. Fix the grille to the heater and use the eight longer screws provided to secure the heater to the plinth.

## Operation

1. Switch on the electricity supply to the heater
2. Winter use for heating:  
Set the Winter/Summer switch to (Winter position)  
Select either low or boost fan speed on the changeover switch depending on heat required.



3. Turn ON the central heating system.
4. As hot water reaches the heat exchanger the low limit. Thermostat should cut in and the fan will start to operate (set at 38°C).
5. Summer use – cool blow.

The hydronic base unit heater may be used in Summer to provide air circulation without heat.

Set the winter / Summer switch to ☀️ (Summer position), and Choose between low 🌀 or boost fan 🌀 speed.

In this position the fan will run at the selected speed until manually reset.

## Troubleshooting

Insufficient heat output from the heat exchanger may be caused by:

- Airlock in the heat exchanger – (ISOLATE FROM ELECTRICAL SUPPLY)  
Remove the grille and bleed the appliance as in the Water Connections' section.
- Hot water temperature too low – the boiler thermostat may need increasing.
- Bulk of the hot water circulating through the radiators – rebalance by closing back lockshield valves on radiators to increase water flow through the appliance.
- Dirty heat exchanger.

## Wiring Diagram

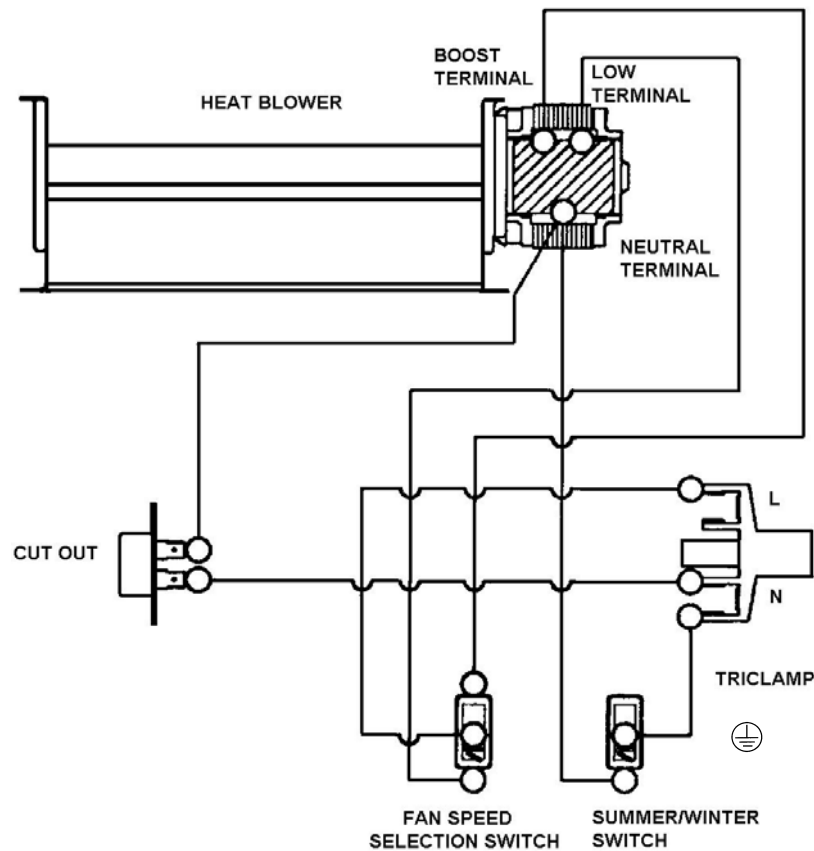


Fig. 5

## Cleaning and User Maintenance

WARNING: DISCONNECT POWER SUPPLY before carrying out any maintenance.

### General cleaning

External appearance can be maintained by wiping occasionally with a damp cloth; for stain removal, weak soap solution can be applied, then wipe dry.

### Internal cleaning and maintenance

From time to time it may be necessary to remove the heater from the furniture unit so that the interior of the heater and the heater compartment can be cleared of any dust or fluff.

To remove, unscrew the eight fixing screws and withdraw the appliance from the plinth. Remove the top cover and gently remove dust with a soft brush and a vacuum cleaner, taking care not to damage the fan or heat exchanger.

### Do NOT tamper with any electrical parts.

Remount the heater in the plinth ensuring the rear support bracket is still adjusted correctly, the flexible pipes are not kinked and the mains cable is not touching any hot or sharp surfaces.

## Recycling

For electrical products sold within the European Community.

At the end of the electrical products useful life it should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice in your country.



## After Sales Service

Your product is guaranteed for one year from the date of purchase.

Within this period, we undertake to repair or exchange this product free of charge (subject to availability) provided it has been installed and operated in accordance with these instructions.

Your rights under this guarantee are additional to your statutory rights, which in turn are not affected by this guarantee.

Should you require after sales information or assistance with this product please go to [www.dimplex.co.uk](http://www.dimplex.co.uk) where you will find our self help guide by clicking on "After Sales" or ring our helpdesk on 0845 600 5111 (UK) or 01 842 4833 (R.O.I.) .

Spare parts are also available on the website

[www.dimplex.co.uk](http://www.dimplex.co.uk)

Please retain your receipt as proof of purchase.



The product complies with the European Safety Standards EN60335-2-30 and the European Standard Electromagnetic Compatibility (EMC) EN55014, EN60555-2 and EN60555-3. These cover the essential requirements of EEC Directives 2006/95/EC and 2004/108/EC

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