



## **Installation & User Guide**

### **Kitchen Plinth Heater models** **KPH 1400-LVDC**



Low Voltage DC Model

## **Introduction**

This heater being low voltage is intended to be installed in areas such as bathrooms or ensuites where 230vac is prohibited. However, being ultra low noise output of just 25 DBa the heater can be installed in bedrooms under wardrobes or similar kind of application.

This unit is made for two pipe pumped central heating systems. Flow and return pipes should be connected as per drawing mentioned in page 2. This unit should not be installed in a one pipe system. To allow enough airflow a minimum clearance of 20-25mm from the top of the unit to any shelving. This unit must be installed on a flat surface to support and avoid vibration.

Isolating valves (not supplied) should be fitted to both pipes (flow & return) to allow easy servicing. The flexible hose should be fitted to both pipes (flow & return) to allow easy servicing.

This unit operates with low voltage DC power supply hence suitable to be installed in a bathroom or high humid areas.

The following items should be in the box supplied:

**DC power supply 12v**

**3 Amp Fuse**

**Flexible connecting Hoses 900mm**

**Fitted Grille**

**Fixing screws (2)**

**Screw cover caps (Unless stainless grille)**

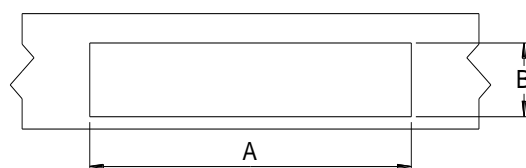
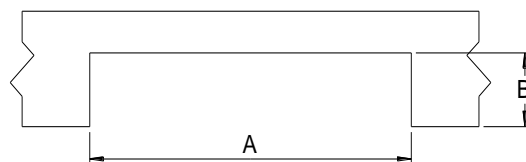
In the event of any items missing or visibly damaged, please contact us on email.

### Installation:

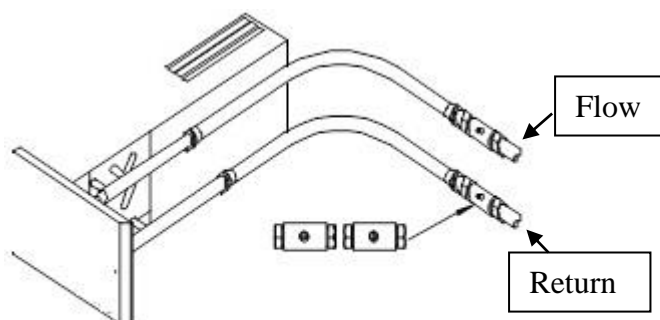
1. The heater should be installed by a qualified plumber. We recommend the use of a knee pad when installing this product. Cut the opening in the plinth to the size shown in the table. Use method A or B.

Model	Width A	Height B*
KPH 1400 LVDC	462mm	97mm

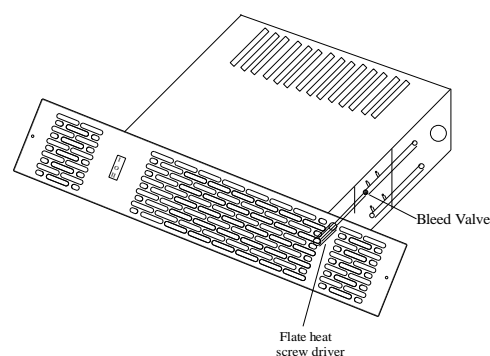
\* The overall height of the grille is 100mm. Use care when cutting the opening.



2. Fit isolating valves (not supplied) to the system flow and return pipes. Failure to fit isolating valves may mean that the product is not serviceable in the event of failure. Remove and discard the two protection bung in the copper pipes and connect the flexible hoses between system pipework and heater. Open the isolating valves and check for leaks.

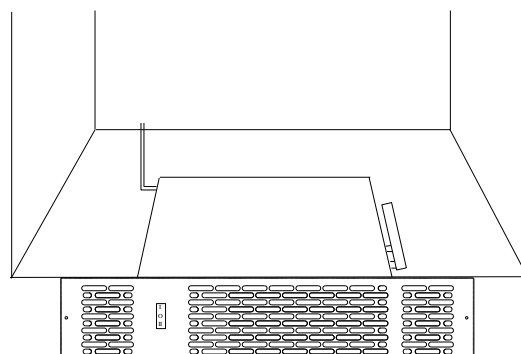


3. Vent air through bleed screw if necessary. (Normally not required on pressurized systems)

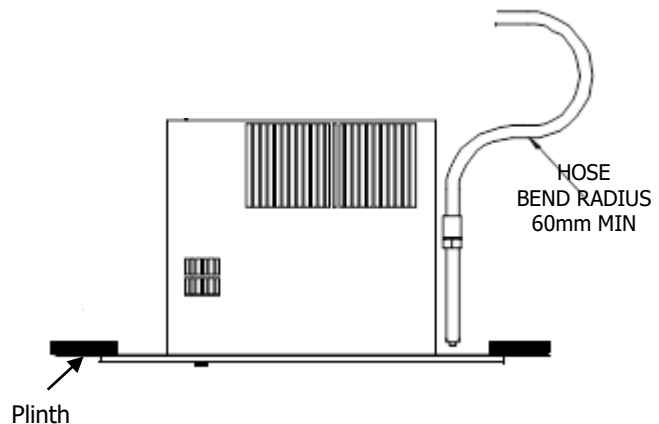


4. Please use the supplied DC power supply unit to operate the fans. Power supply should be located in right location to comply with electrical regulations (please consult your electrician)

- Power supply is 12 v dc.
- If you prefer to run at lower fan speed you can also operate at 9v or 7.5v (power supply not supplied but available as accessory item). Heat output will be reduced at lower voltages but fan noise is also lower which may suit bedrooms

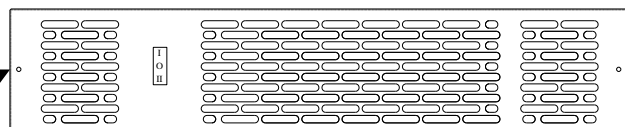


5. Position heater, making sure the flexible hoses is not kinked and the electrical cable is not snagged.



6. Fix the heater to plinth using fixing screw holes located at either end of grille.

Grille to plinth securing screws



### Commissioning:

1. Turn on the electrical supply.
2. Set the switch to I
3. Turn on the central heating system.
4. Set any room thermostat/s to maximum.
5. Set the switch to I – the fan should run and heat will flow within a few minutes if water temperature in the system is more than 40°C. (NB Both Pipes should be too hot to touch if they are not the heater will not run )
6. Balance the central heating system if plinth heater is installed on the same circuit as panel radiators.
7. When the installation is working correctly, remember to reset any room thermostat/s to its normal setting

### Fault Finding:

1. Fan does not run on any switch setting.
  - a). Check the power supply is switched ON.
  - b). Check the switch is turned ON.
  - c). Check both pipes too hot to touch
2. No heat output.
  - a). Check the power supply is switched ON.
  - b). If fitted, ensure any room thermostats are calling for heat.

c). Balance the central heating system if installed on same circuit as panel radiators and increase the circulating pump speed if required.

d). Increase the boiler water temperature.

## Electrical Connections:

Connection from power supply cable to 3Amp fused spur, 12v dc power supply provided with the unit.

If you need to extend the power supply cable to reach the heater unit this can either be done with your electrician extending the 230vac lead to the power supply or by using the 5mtr DC extension lead (sold as an accessory) between the plinth heater and the power supply.

## Warranty:

This product is covered by a standard 12 month product replacement warranty against any manufacturing defects or workmanship. Warranty is only for the main product not for any accessories that comes with the heater. The manufacturer reserves the right to replace or repair the product.

This warranty will not cover:

- Necessary maintenance and repair or replacement of parts due to normal wear and tear.
- Transport costs, labour cost related to commissioning/decommissioning the product from the central heating system.
- Any damage resulting from inappropriate installation, modifications or adjustments which may be made to the product.

*Products with this symbol (crossed out wheelie bin) cannot be disposed as household waste. Old electrical and electronic equipment must be recycled at a facility capable of handling these products and their waste by-products. If you are purchasing replacement equipment your retailer may offer a 'take back' scheme, or will be able to give details of the nearest approved authorised treatment facility. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.*

