



## Installation & User Guide

### **Kitchen Plinth Heater models** **KPH 1800-LV and KPH 2100-LV**



Low Voltage Models

## Introduction

This heater is intended to install behind the plinth in the space under the kitchen cupboards. However, it can be installed in similar kind of application.

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

This unit operate with low voltage DC power supply hence suitable to be installed in bath room or high humid areas.

The following items should be in the carton:

- DC power supply.**
- Flexible connecting Hoses**
- Fitted Grille**
- Fixing screws (2)**

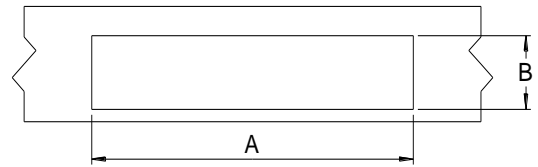
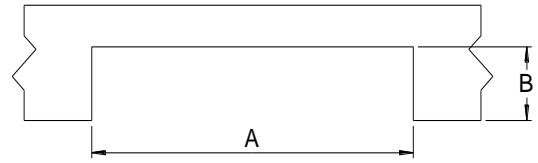
In the event of any items missing or visibly damaged, please contact us on email.

**Installation:**

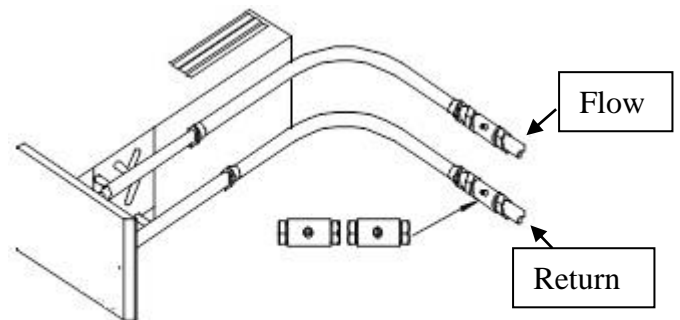
1. The heater should be installed by a qualified plumber. We recommend the use of a knee pad when installing this product. Cut the opening in the plinth to the size shown in the table. Use method A or B.

| Model                 | Width A | Height B* |
|-----------------------|---------|-----------|
| KPH 1800 LV & 2100 LV | 462mm   | 97mm      |

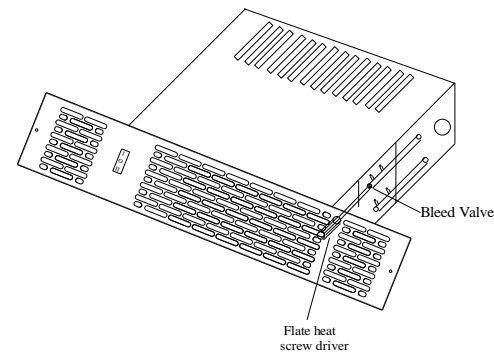
\* The overall height of the grille is 100mm. Use care when cutting the opening.



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.

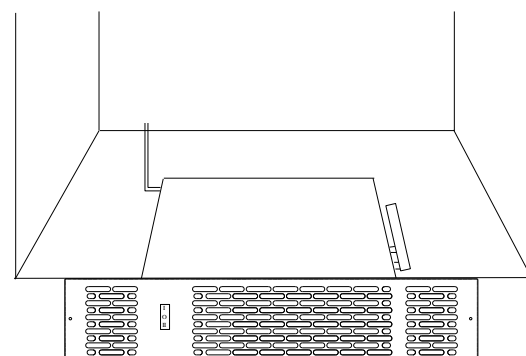


3. Vent air through bleed screw if necessary.

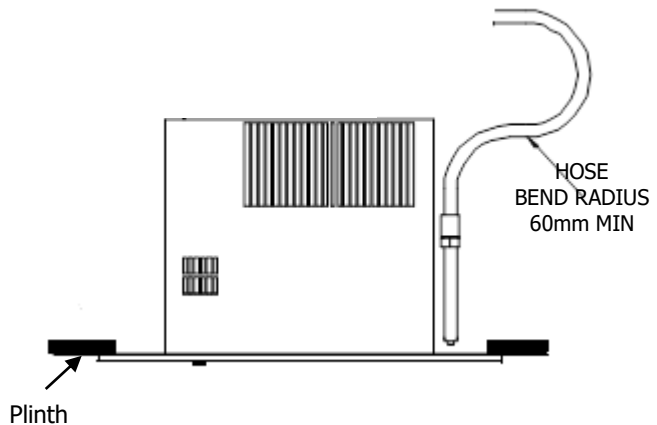


4. Please use the supplied DC power supply unit to operate the fans. Power supply should be located in right location to comply with electrical regulations (please consult your electrician)

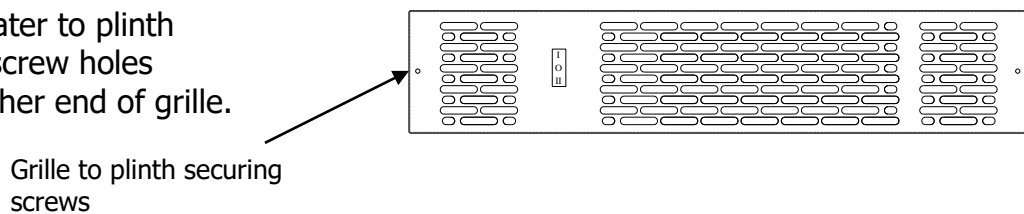
- Power supply has preset at 5 V to keep the fan noise lower.
- If you prefer to run at higher fan speed you can select 6V.



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:**

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. Turn on the electrical supply.</li> <li>2. Set the switch to I</li> <li>3. Turn on the central heating system.</li> <li>4. Set any room thermostat/s to maximum.</li> </ol> | <ol style="list-style-type: none"> <li>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.</li> <li>6. Balance the central heating system if Kitchen plinth heater is installed on the same circuit as panel radiators.</li> <li>7. When the installation is working correctly, remember to reset any room thermostat/s to its normal setting</li> </ol> |
|---|--|

**Fault Finding:**

- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>1. Fan does not run on any switch setting.</li> <li>2. No heat output.</li> </ol> | <ol style="list-style-type: none"> <li>a). Check the power supply is switched ON.</li> <li>b). Check the switch has turned ON.</li> <li>a). Check the power supply is switched ON.</li> <li>b). If fitted, ensure any room thermostats are calling for heat.</li> <li>c). Balance the central heating system if installed on same circuit as panel radiators and increase the circulating pump speed if required.</li> <li>d). Increase the boiler water temperature.</li> </ol> |
|--|--|

## Electrical Connections:

Only use the power supply provided with the unit.

If you need to extend the power supply cable to reach the heater unit please cut the power supply cable at the end the cable and extend using the suitable cable. You can use the DC Jack plug to connect into the extended cable.

**Note:** Please make sure the polarities are correct when you extending the cable.

### Product Performance Table:

| Model      | Speed | Output @<br>75°C<br>( watts) | Output @<br>70°C<br>( watts) | Output @<br>65°C<br>( watts) | Output @<br>60°C<br>( watts) | Output @<br>55°C<br>( watts) | Output @<br>50°C<br>( watts) | Output @<br>45°C<br>( watts) |
|------------|-------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| KPH-1800LV | Low   | 1611                         | 1505                         | 1382                         | 1235                         | 993                          | 738                          | 513                          |
| KPH-2100LV | Low   | 1925                         | 1669                         | 1472                         | 1386                         | 1227                         | 1039                         | 937                          |

Note: Outputs are based on the running the fan at 6V DC power.

### 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. To extend your warranty to 24 months the product must be registered online within 28 days from purchase date. See the warranty instruction note included for more details.

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.

*Products with this symbol (crossed out wheellie 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.*



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