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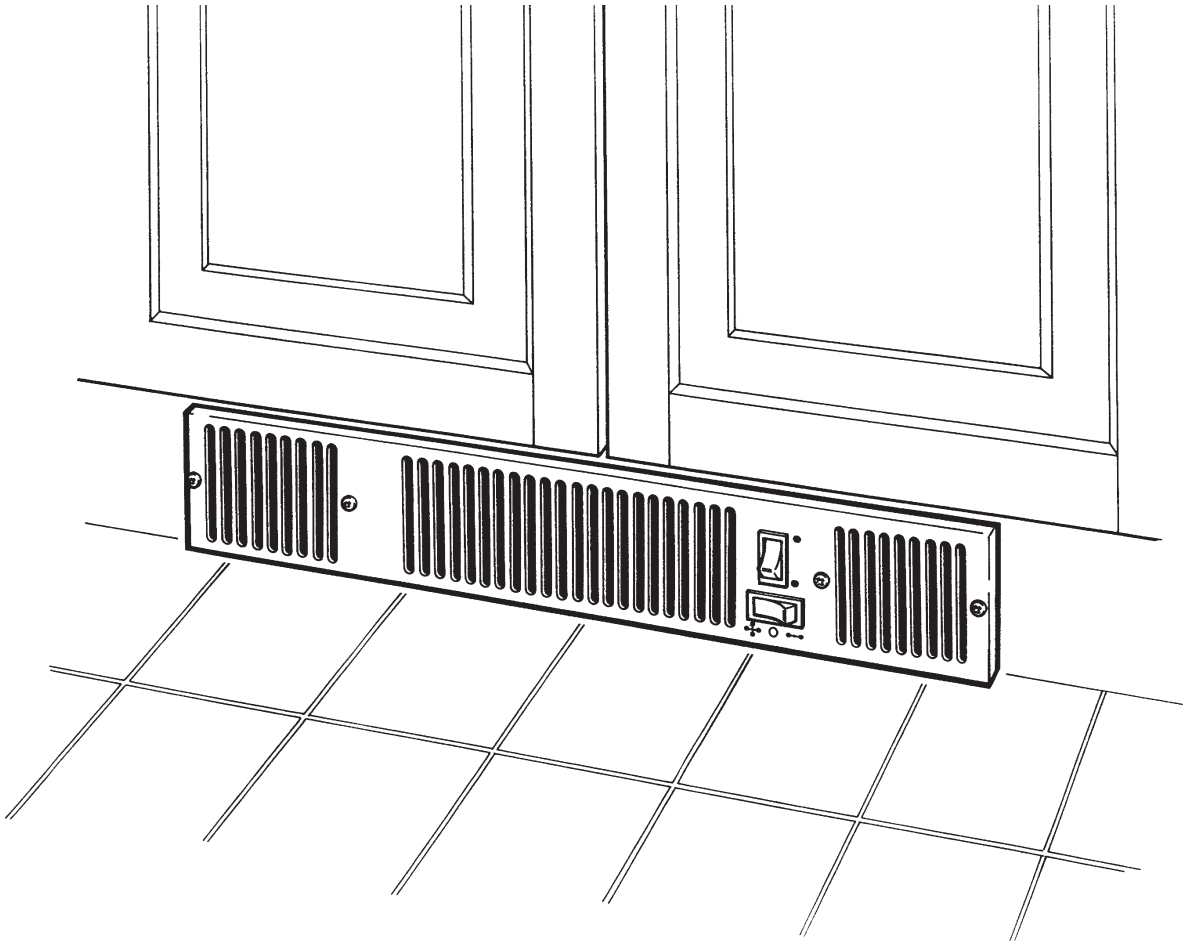
MYSON
Convectors

# KICKSPACE® 500, 600 and 600-12V FAN CONVECTORS



## INSTALLATION, MAINTENANCE AND OPERATING INSTRUCTIONS AND TECHNICAL DATA

PLEASE READ THESE INSTRUCTIONS THOROUGHLY BEFORE BEGINNING INSTALLATION.
AFTER INSTALLATION LEAVE THESE INSTRUCTIONS WITH THE USER AND COMPLETE THE PRODUCT SERIAL NUMBER DETAILS IN THE BOX BELOW.

| | | | | | |
|---|---|---|---|---|---|
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CE B.E.A.B. Approved

## *LIST OF CONTENTS*



## *1. APPLICATION*

### *1.1. System design*

Kickspace fan convectors must always be fitted to a two pipe pumped circulation central heating system.

For optimum performance, fan convectors require a continuous flow of hot water through the high efficiency heat exchanger. If used in conjunction with radiators it is preferable to provide a separate circuit for the fan convectors to ensure an adequate flow of water in accordance with the technical data given in section 10 (page 7).

Fig. 1 shows an example of a system combining fan convectors and radiators. The pump runs continuously while the system is in operation.

The fan convectors may be controlled by individual room thermostats, and the radiators may be controlled by one or more zone valves via room thermostats, or by individual thermostatic radiator valves.

Systems with thermostatic control which switches the circulating pump will affect the fan convector function as the flow of water will be interrupted.

If a separate circuit cannot be provided for the Kickspace, its position should be chosen, and the system should be balanced, to ensure sufficient water flow is provided. Low water flow will be indicated by the unit switching off by its internal water temperature thermostat when the fan and pump are running together.

### *1.2. Selection*

When deciding on the model size, it is preferable to select the model on the basis of maintaining the calculated heat losses of the room when operating at Low fan speed at 60°C temperature difference. This will enable the Boost fan speed to be used for more rapid warming from cold in extreme conditions.

**The mean water temperature should not be below 60°C for satisfactory operation.**

### *1.3. Location*

Kickspace units are intended for installation in the cavity beneath kitchen cupboards on the vacant floor space. In this position, consideration should be given to the storage of perishable goods in the cupboard above.

Kickspace 600-12V units are suitable for installation in bathrooms beneath a bath or cupboard, but may be used in locations where the extra safety of low voltage operation is seen to be advantageous.

No rear access shall be available to the unit after completion of installation.

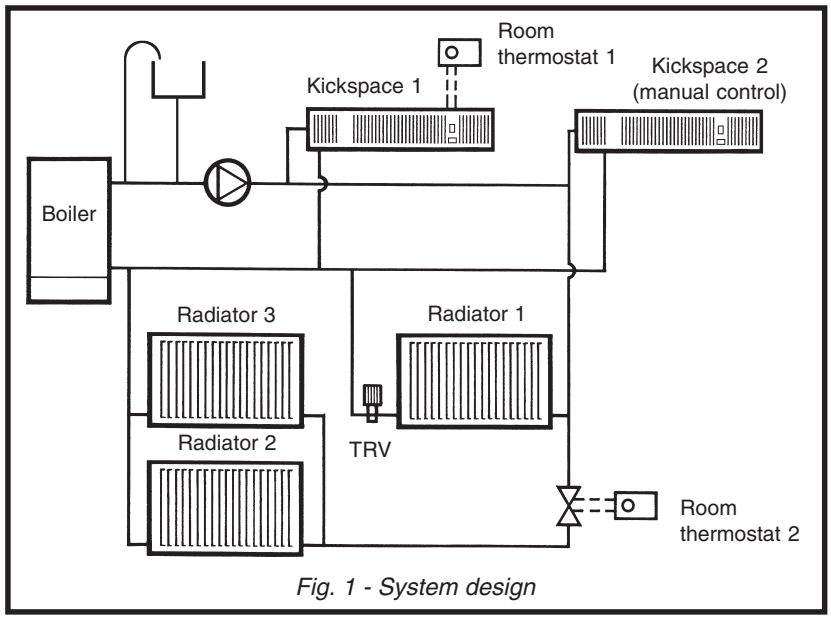



*Fig. 1 - System design*

## 2. ELECTRICAL SUPPLY

**WARNING: THIS APPLIANCE MUST BE EARTHED.**
**The electrical installation must comply with local or national Regulations.**

2.1 The Kickspace is supplied fitted with a 2 metre 0.75 mm² cord.

2.2 A fused (2A) electrical spur with a switch having 3 mm separation on all poles must be provided in an easily accessible position adjacent to the Kickspace, as shown in Fig. 2.2.

2.3 **Room Thermostat -** If a room thermostat is to be fitted, wire it at this stage. Remove the link in terminals T1 and T2. Connect sufficient cord to these terminals and connect to the thermostat.

2.4 **Remote Control Switch -** A Remote Control Switch is available as an accessory, and if required should be wired at this stage. Follow the instructions supplied with the kit.

**Do not energize the electrical supply until the remaining stages of the installation have been completed.**

**Note:** If the supply cord to the transformer is damaged, it must be replaced by a special cord/transformer assembly available from Myson Convectors.

## ELECTRICAL SUPPLY - continued

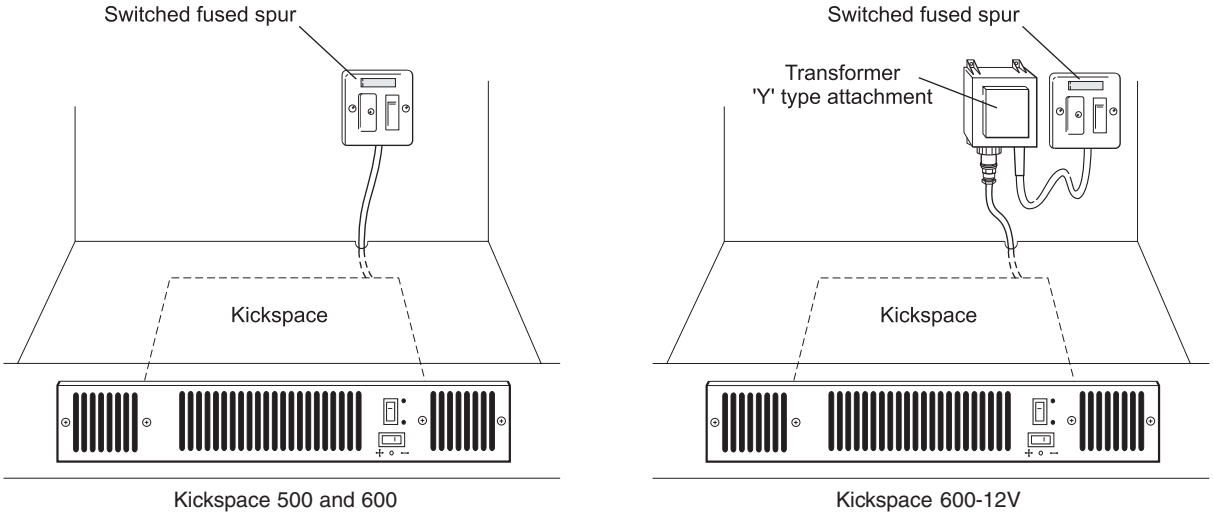



*Fig. 2.2 - Electrical supply*

## 3. PREPARATION

3.1 A clean and level floor area is required under the cupboard or bath base.

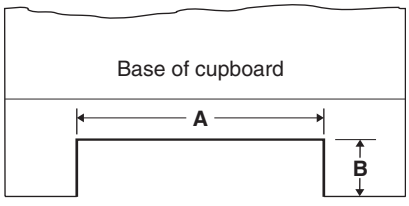
3.2 **Floor mounting -** The Kickspace is normally fitted directly onto the floor. Four mounting feet are fitted to the base of the unit.
Decide the position of the Kickspace, mark out and cut the plinth to the dimensions as shown in Fig. 3.2.

3.3 **Plinth mounting -** As an alternative to floor mounting the unit may be fitted into the plinth. For this application cut the plinth to the dimensions as shown in Fig. 3.3.

3.4 A suitable support must be securely fitted to the floor. The top of the support must be level with the lower edge of the cut-out when fitted.
**A minimum of 25 mm clear headroom is required above the top of the Kickspace when fitted.**

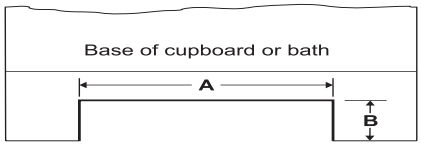
3.5 Flexible connection hoses with integral isolating valves are supplied to allow for easy installation and future access for maintenance etc.

## PREPARATION - continued




| | A | B |
|---|---|---|
| Kickspace 600, 600-12V | 520 | 99 |
| Kickspace 500 | 466 | 99 |

*Fig. 3.2 - Plinth opening (floor mounting)*




| | A | B |
|---|---|---|
| Kickspace 600, 600-12V | 520 | 99 |
| Kickspace 500 | 466 | 99 |

*Fig. 3.3 - Plinth opening (plinth mounting)*

## 4. WATER CONNECTIONS

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

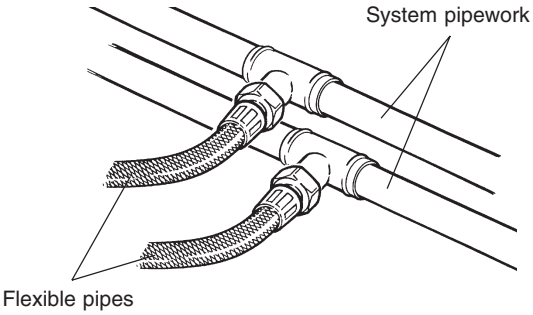



*Fig. 4.1 - Connect flexible pipes to system pipework*

## WATER CONNECTIONS - continued

4.2 Connect the valve ends of the flexible pipes to the rear of the Kickspace.

**Note:** The direction of flow arrows on the valves **are not** significant in this application.

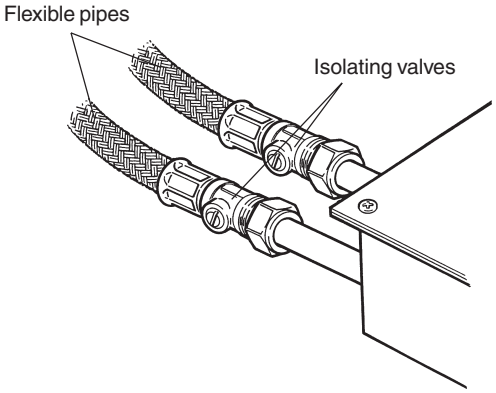



*Fig. 4.2 - Connect the flexible pipes to the Kickspace*

## WATER CONNECTIONS - continued

4.3 Fill and vent the system. A vent screw is provided to vent the Kickspace heat exchanger.

Close the vent and check for leaks.

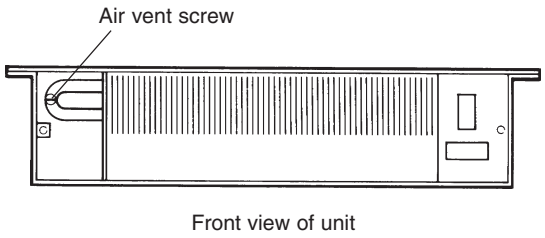



*Fig. 4.3 - Vent screw position*

## 5. FITTING THE KICKSPACE

5.1 Position the Kickspace under the cupboard in the required location, with the front edge just behind the line of the plinth.

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

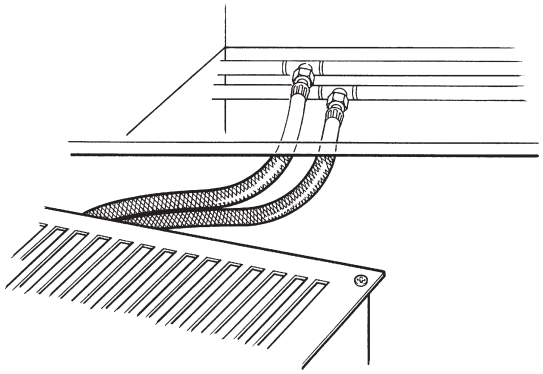


*Fig. 5.1 - Position the Kickspace*

## FITTING THE KICKSPACE - continued

5.2 Replace the plinth and bring the Kickspace forward into the opening so that the front edge projects 8 mm through the plinth.

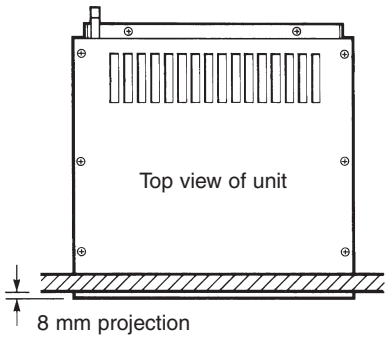



*Fig. 5.2 - Ensure 8 mm projection*

## 6. COMPLETION

6.1 Align the grille and secure it to the unit with two screws supplied (use the shorter screws).

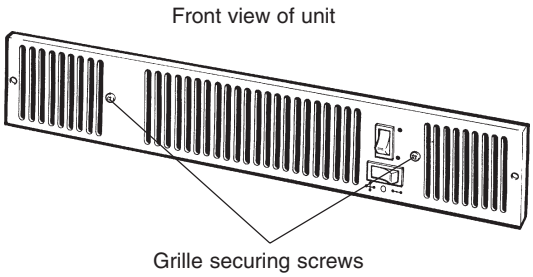



*Fig. 6.1 - Fit the grille*

## COMPLETION - continued

6.2 Secure the unit/grille to the plinth with two screws supplied (use the longer screws).

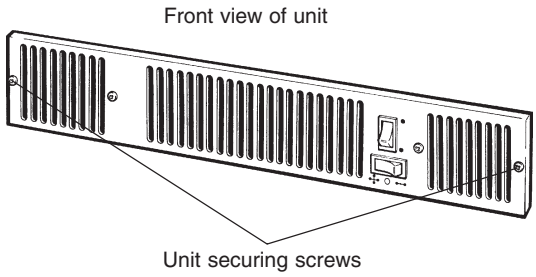



*Fig. 6.2 - Secure the unit to the plinth*

6.3 Complete the electrical supply, switch on and test the Kickspace.

## 7. CONTROLS

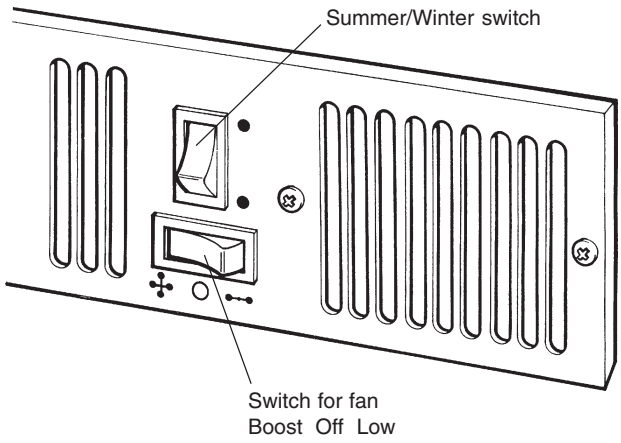



*Fig. 7 - Controls*

## *8. Operation*

Ensure that the electrical supply is switched on.

### *8.1. Winter use - for heating*

If remote room thermostat is fitted, turn it to a high setting.

Set the fan speed switch to Boost or Low, see Fig. 7.

Set the Summer/Winter switch, see Fig. 7, to the Winter position by pressing to the red top disc.

The fan will now rotate provided hot water is circulating through the heat exchanger at or above 43°C.

If the unit has just been opened to the heating system or the system is not up to working temperature, there will be a delay before the fan begins to run.

### *8.2. Temperature control*

If a room thermostat is connected to control the Kickspace, its setting should be gradually adjusted to obtain the required temperature. Use the fan speed switch at Boost or Low as required to increase or decrease the heat output of the unit.

### *8.3. Time switch control*

It is normal for a heating system to be controlled by a programmer or time switch. Under such control the internal low temperature thermostat in the Kickspace ensures that the fan will stop after the heating system is switched off and the water flow stops. It will automatically restart, if left in an operating position, when the heating system is reheated.

### *8.4. Summer use - for air circulation*

If required, the Kickspace can be used in Summer for air circulation without heat. Set the Summer/Winter switch to the Summer position by pressing to the blue bottom disc.

If a remote room thermostat is fitted, set it to its highest setting.

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

### *8.5. Remote Control Switch*

If a Remote Control Switch is fitted, the fan switch on the unit will be inoperative. Refer to the instructions supplied with the Remote Control Switch for details.

## *9. MAINTENANCE*

Isolate the electrical supply.

Maintenance should be restricted to occasional removal of dust and lint around the unit. In severe conditions, remove the top cover and gently remove dust with a soft brush and vacuum cleaner, taking care not to damage the fan or heat exchanger.

Do not tamper with any electrical parts.

In case of further service requirements, contact your supplier.

## *10. TECHNICAL DATA*

**Heat outputs with flow rate 75 g/h. Tested in accordance with BS 4856 Pt 1.**

| Model | Motor power (Watts) | Water content (litres) | Fan speed | Maximum heat output (Watts) Temperature difference (°C) | | | | | | Maximum heat output (Btu/h) Temperature difference (°F) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 40° | 45° | 50° | 55° | 60° | 65° | 72° | 81° | 90° | 99° | 108° | 117° |
| 500 | 25 | 0.15 | Boost | 923 | 1045 | 1166 | 1289 | 1412 | 1535 | 3152 | 3565 | 3981 | 4398 | 4817 | 5238 |
| | 12 | | Low | 733 | 815 | 896 | 976 | 1056 | 1135 | 2501 | 2781 | 3058 | 3332 | 3603 | 3873 |
| 600 & 600-12V | 40 | 0.30 | Boost | 1275 | 1453 | 1630 | 1803 | 1975 | 2150 | 4350 | 4959 | 5561 | 6154 | 6738 | 7336 |
| | 29 | | Low | 880 | 1053 | 1225 | 1393 | 1560 | 1730 | 3002 | 3594 | 4179 | 4754 | 5322 | 5904 |

**Flow rate correction factors:**

453 l/h (100 g/h) multiply output by 1.03, 227 l/h (50 g/h) multiply output by 0.96, 113 l/h (25 g/h) multiply output by 0.85

**Approximate hydraulic resistance through fan convector**

| gallons/h | ft wg | | mm wg | | litres/h |
|---|---|---|---|---|---|
| | 500 | 600 & 600-12V | 500 | 600 & 600-12V | |
| 75 | 0.58 | 1.95 | 177 | 594 | 340 |
| 50 | 0.22 | 1.06 | 68 | 323 | 227 |
| 25 | 0.05 | 0.48 | 14 | 146 | 113 |

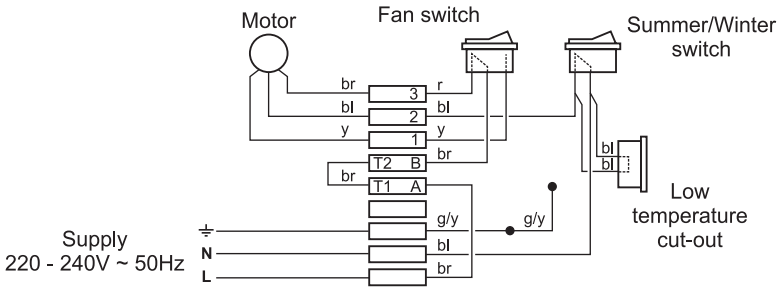
**Noise level tests in accordance with EN 23741**

| Model | Sound pressure at 2.5 m (dBA) | |
|---|---|---|
| | Low | Boost |
| 500 | 25.7 | 38.1 |
| 600 & 600-12V | 29.4 | 39.0 |

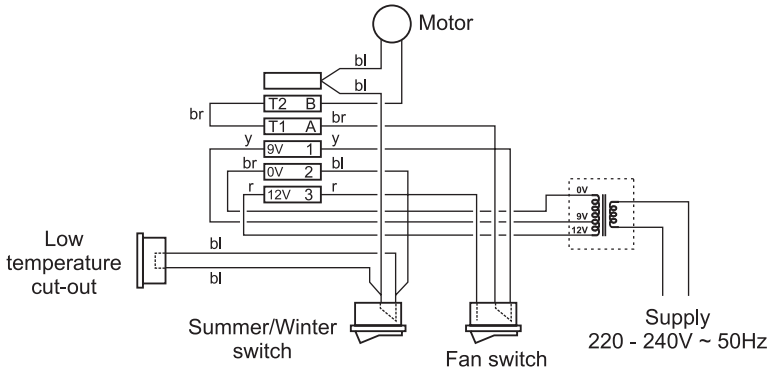
**Test pressure:** 20 bar, Maximum working pressure: 10 bar
**Water connections:** 15 mm compression
**Electrical supply:** 220 - 240 V ~ 50 Hz

## *11. WIRING DIAGRAMS*

**Kickspace 500 and 600 - standard wiring diagram**




**Kickspace 600-12V - standard wiring diagram**




**Colour code:** br-Brown, bl-Blue, bk-Black, r-Red, y-Yellow, g/y-Green/Yellow

## *CUSTOMER SERVICE INFORMATION*

### *After Sales Service*

A dedicated customer service department backed up by a national network of service engineers is available to support your Myson Convector.

Myson service can be contacted by:
Telephone: **01482 713927**
Facsimile: **01482 789056**

Customer Service Working Hours:
Monday to Thursday 9am to 5pm
Friday 9am to 3pm

**E-mail: service.convectors@myson.co.uk**

### *Technical Advisory Service*

For immediate help or advice on any aspect of installation or maintenance call **01482 713927** or
E-mail: **tech.convectors@myson.co.uk**

### *Product Warranty*

Every Myson convector carries a free 5 year parts and labour warranty. In accordance with our policy of continual product improvement, we reserve the right to amend the specification of these products without prior notification.

### *Sales Operations*

Myson's offer on-line sales order processing with direct client access and a national network of sales representatives. Call **0191 491 7500** for further information. For export sales contact **01482 7011709**.

### *Spare Part Availability*

For details of how to obtain genuine Myson spare parts call **01482 713927** or
E-mail: **spares.convectors@myson.co.uk**

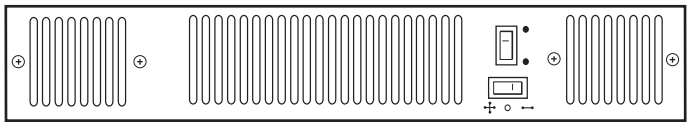
### *Product Literature*

For copies of the latest convector range brochure, price lists, installation instructions and other Myson product literature, contact the brochure hotline on **08457 697509** or access the Myson website: **www.myson.co.uk**

### *Customer Service Pledge*

It is our aim to provide an immediate solution to your service, technical and spare parts needs. However, if further investigation is required and we say that we will call you back, then you can be assured that we **will** call you back.

### SERIAL NUMBER LOCATION



Serial number located on left hand side of Chassis
May Necessitate Removal of front grille to read
(Also located on product packaging)

MYSON
Convectors

MYSON RADIATORS LIMITED, REGISTERED IN ENGLAND NO. 653648.
REGISTERED OFFICE: EASTERN AVENUE, TEAM VALLEY TRADING ESTATE, GATESHEAD NE11 0PG.



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