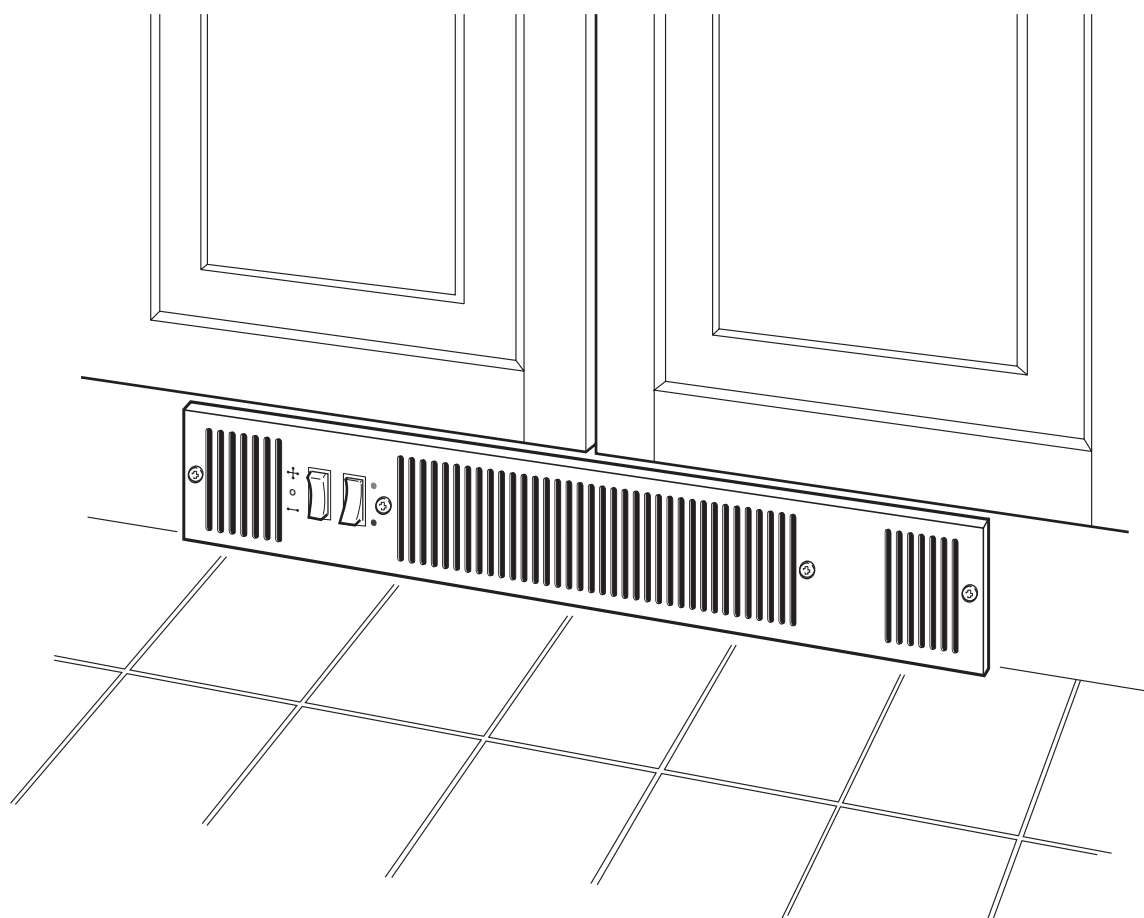




# KICKSPACE<sup>®</sup> 800 FAN CONVECTOR



## INSTALLATION, MAINTENANCE AND OPERATING INSTRUCTIONS AND TECHNICAL DATA

PLEASE READ THESE INSTRUCTIONS THOROUGHLY BEFORE BEGINNING INSTALLATION  
AFTER INSTALLATION LEAVE THESE INSTRUCTIONS WITH THE USER



**LIST OF CONTENTS**

1. Application .....	Page 2
2. Electrical Supply .....	3
3. Preparation .....	3
4. Water Connections .....	4
5. Fitting Kickspace .....	4
6. Completion .....	5
7. Controls .....	5
8. Operation .....	6
9. Maintenance .....	6
10. Technical Data .....	6
11. Wiring Diagrams .....	7

**1. APPLICATION**

**1.1. System design**

Kickspace 800 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 6).

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**

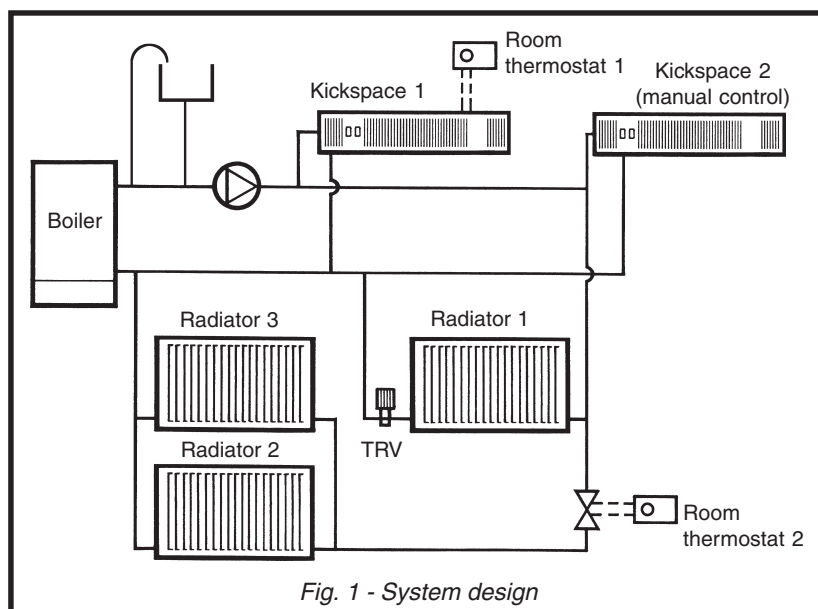
It is preferable to select on the basis of maintaining the calculated heat losses of the room when operating at Low fan speed at 60°C temperature difference. This will enable the Boost fan speed to be used for more rapid warming from cold in extreme conditions.

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

**1.3. Location**

Kickspace 800 units are intended for installation in the cavity beneath cupboards on the vacant floor space. In this position, consideration should be given to the storage of perishable goods in the cupboard above.

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



## 2. ELECTRICAL SUPPLY

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

- 2.1 The Kickspace 800 is supplied fitted with a 2 metre 0.75 mm<sup>2</sup> cord.
- 2.2 A fused 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. See wiring diagram on page 7.
- 2.4 **Remote Control Switch** - A Remote Control Switch is available as an accessory, and if required should be wired at this stage.

Remote Controls kits for the Kickspace 500 and 600 are suitable for the Kickspace 800. Follow the instructions supplied with the kit, connecting the cable supplied as follows:-

Yellow lead to spare side of terminal block position '1'

Brown lead to spare side of terminal block opposite position 'L'

Red lead to spare side of terminal block position '3'

Green/Yellow (Brass or Chrome switch only) connect to terminal block position '⏏'

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

### ELECTRICAL SUPPLY - continued

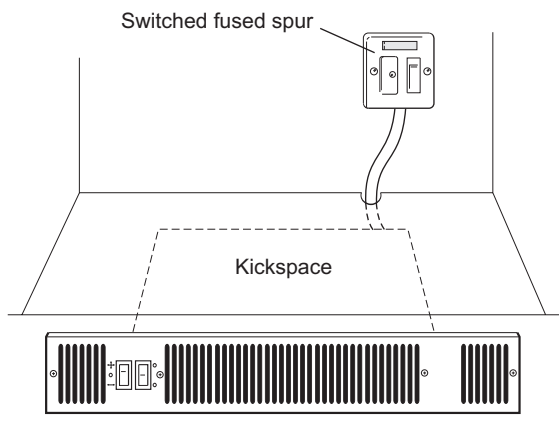


Fig. 2.2 - Electrical supply

### 3. PREPARATION

- 3.1 A clean and level floor area is required under the cupboard 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.  
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.
- 3.4 **A minimum of 25 mm clear headroom is required above the top of the Kickspace when fitted.**

### PREPARATION - continued

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

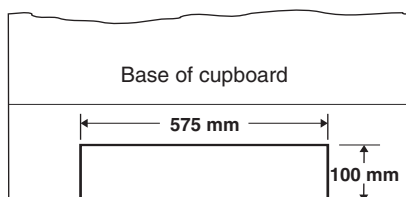


Fig. 3.2 - Plinth opening (floor mounting)

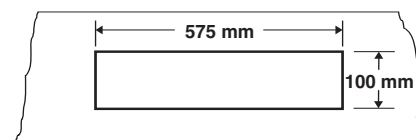


Fig. 3.3 - Plinth opening (plinth mounting)

#### 4. WATER CONNECTIONS

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

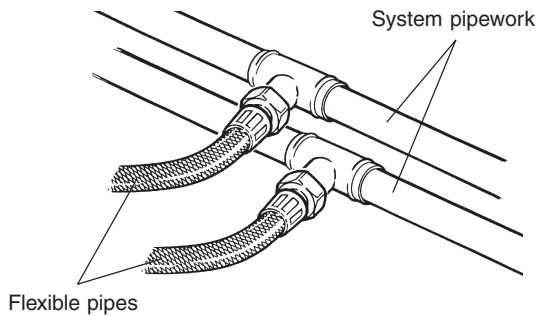


Fig. 4.1 - Connect flexible pipes to system pipework

#### 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.

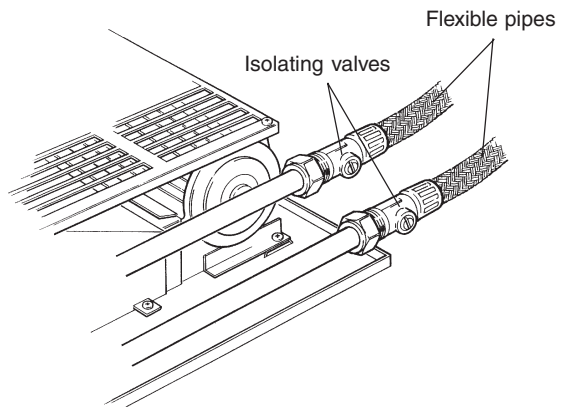


Fig. 4.2 - Connect the flexible pipes to the Kickspace

#### 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.

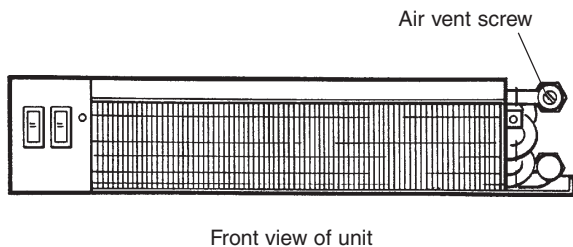


Fig. 4.3 - Vent screw position

#### 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.

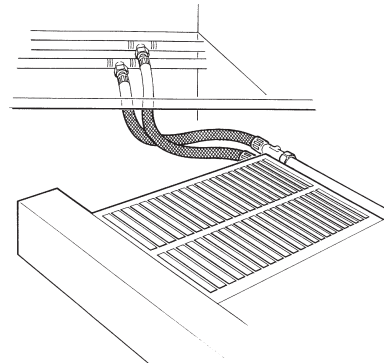


Fig. 5.1 - Position the Kickspace

#### 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.

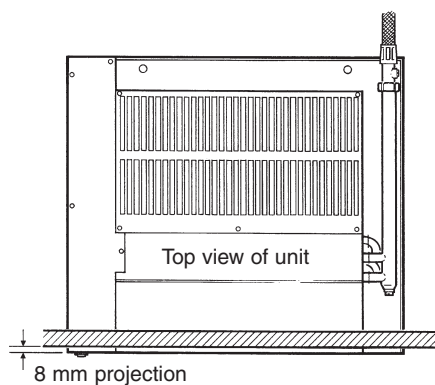


Fig. 5.2 - Ensure 8 mm projection

## 6. COMPLETION

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

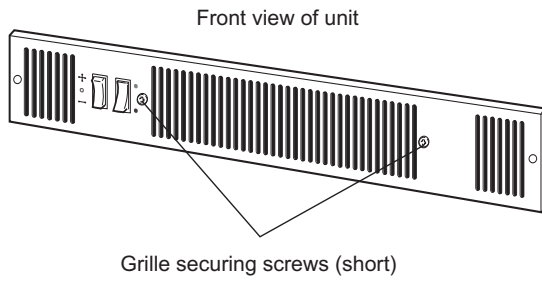


Fig. 6.1 - Fit the grille

## COMPLETION - continued

- 6.2 Secure the unit/grille to the plinth with two screws supplied (use the longer screws).  
**It is essential that both sets of screws are used.**

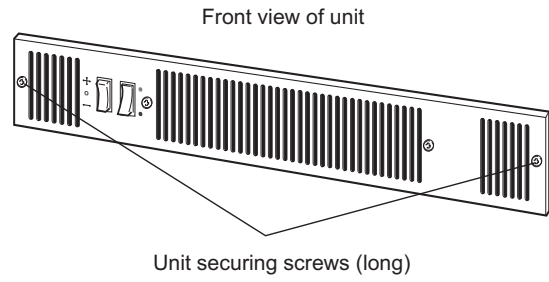


Fig. 6.2 - Secure the unit to the plinth

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

## 7. CONTROLS

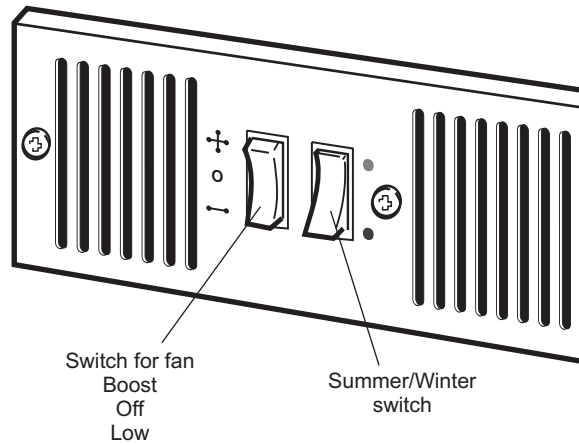


Fig. 7 - Controls

## 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 Summer/Winter switch to the winter position by pressing it to the red top disc.

Set the fan speed switch to Boost (⬆️) or Low (⬅️), see Fig. 7.

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 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 speed switch on the unit will be inoperative.

Refer to the instructions supplied with the Remote Control Switch for further 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.

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°
40	0.18	Boost	1736	1964	2192	2420	2649	2879	5930	6701	7479	8257	9038	9823
18		Low	1396	1552	1707	1860	2012	2162	4763	5295	5824	6346	6865	7377

### 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 0.89

### Approximate hydraulic resistance through fan convector

gallons/h	ft wg	mm wg	litres/h
100	1.35	411	455
75	0.81	248	340
50	0.40	122	227
25	0.12	36	113

**Test pressure:** 20 bar

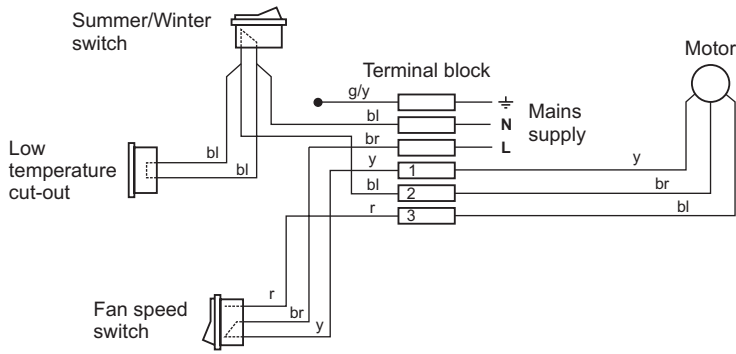
**Maximum working pressure:** 10 bar

**Water connections:** 15 mm compression

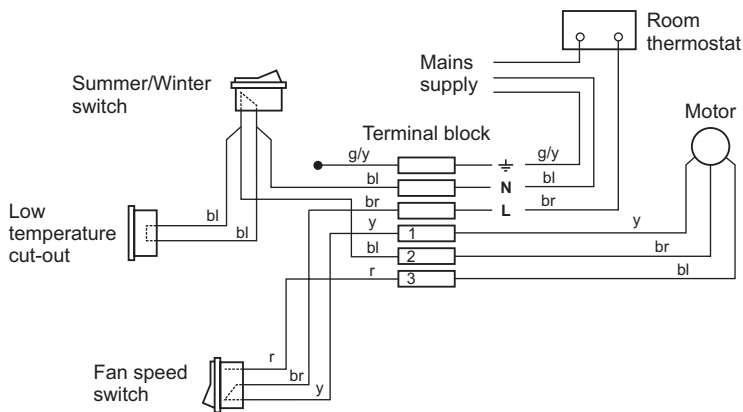
**Electrical supply:** 220 - 240 V ~ 50 Hz

# 11. WIRING DIAGRAMS

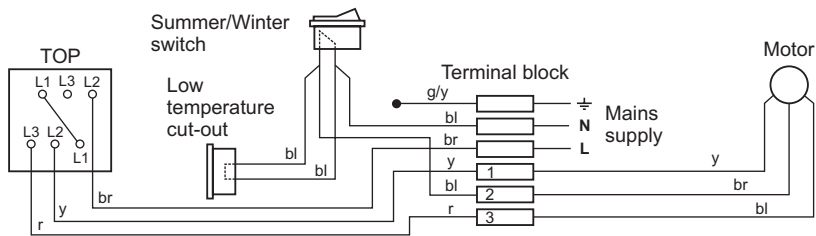
## Kickspace 800 - standard wiring diagram



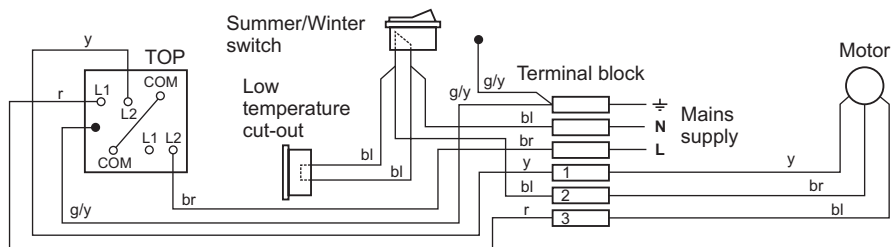
## Kickspace 800 - with external room thermostat



## Kickspace 800 - with white remote control switch



## Kickspace 800 - with brass or chrome remote control switch



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

## **USEFUL TELEPHONE NUMBERS**

### **Literature**

For copies of the latest Convector range brochure, price lists, full installation instructions and other Potterton Myson product literature, contact the Brochure Hotline on 0345 697509.

### **After Sales Service**

A national team of field service engineers and spare parts stockists are available to support the products. For service call 08706 096096 or for details of your nearest spare parts stockist call 01926 880640.

### **Technical Advisory Service**

For immediate help or advice on any aspect of installation or maintenance call 08706 049049.

### **Training**

Fully equipped Training Centres around the country offer a wide range of courses to installers. For details call 01926 430481.

### **Sales Operations**

We offer on-line sales order processing with direct client access and a national network of sales representatives. Call 0191 4917500 for further information. For export sales contact 01482 7011709.

### **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.

Please ensure that the enclosed Warranty Registration card is completed and returned within seven days.



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