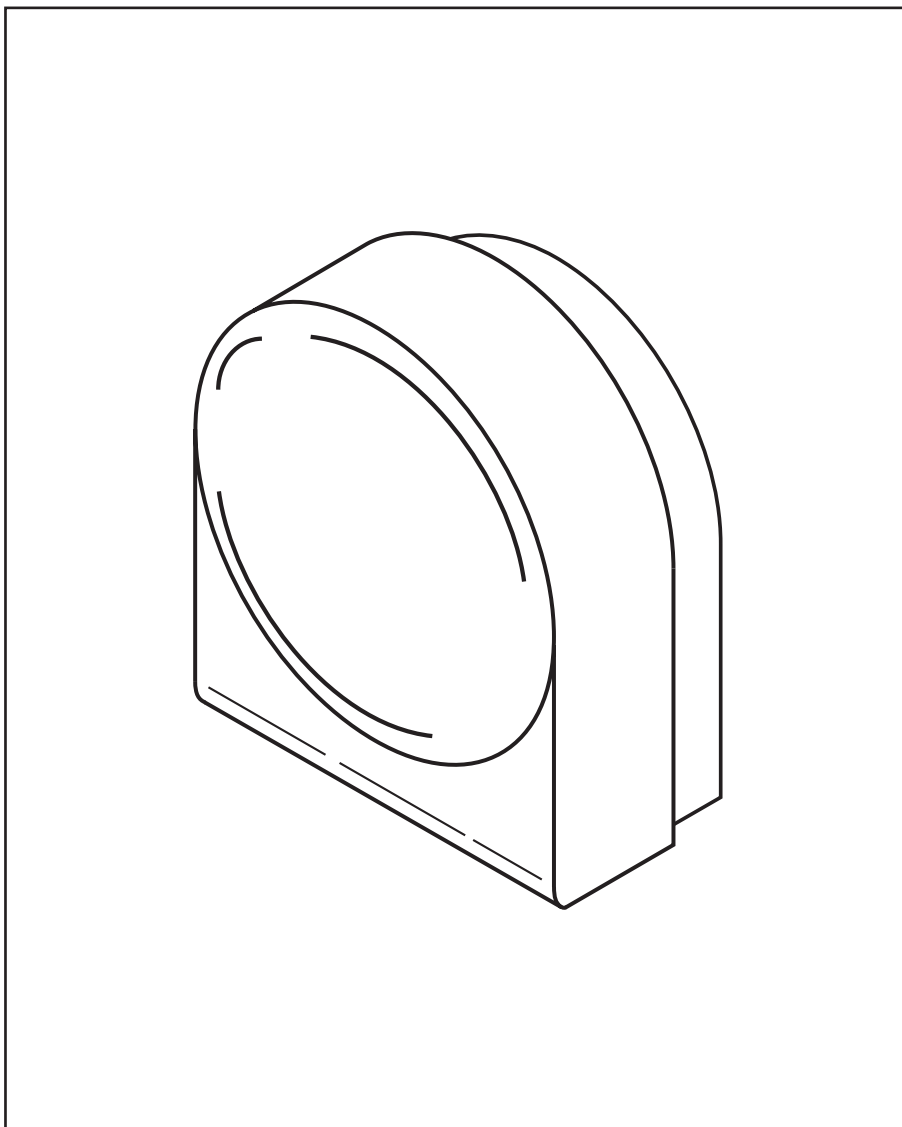


Outdoor Sensor

Temperature Compensation Device

Suitable for use with Combination Boilers ONLY

Part No. 720330001



NOTE: This instruction booklet and all other boiler literature must be left with the user for safe keeping.

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NOTE: It is **ESSENTIAL** that the correct section is read when **Connecting & Setting the Sensor !!**

The Outdoor Sensor is suitable for use with the following boilers:-

APPLIANCE GROUP 'A'

Baxi Duo-tec Combi range

Baxi Platinum Combi range

Potterton Promax Combi range

Potterton Gold Combi range

Potterton Heatmax Combi range

APPLIANCE GROUP 'B'

Baxi Duo-tec 2 Combi GA range

Baxi Neta-tec Combi GA range

Potterton Promax 2 Combi GA range

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1.0 Introduction

1.1 Description

1. The Outdoor Sensor enables the boiler to respond effectively to changes in the ambient temperature outside the dwelling.

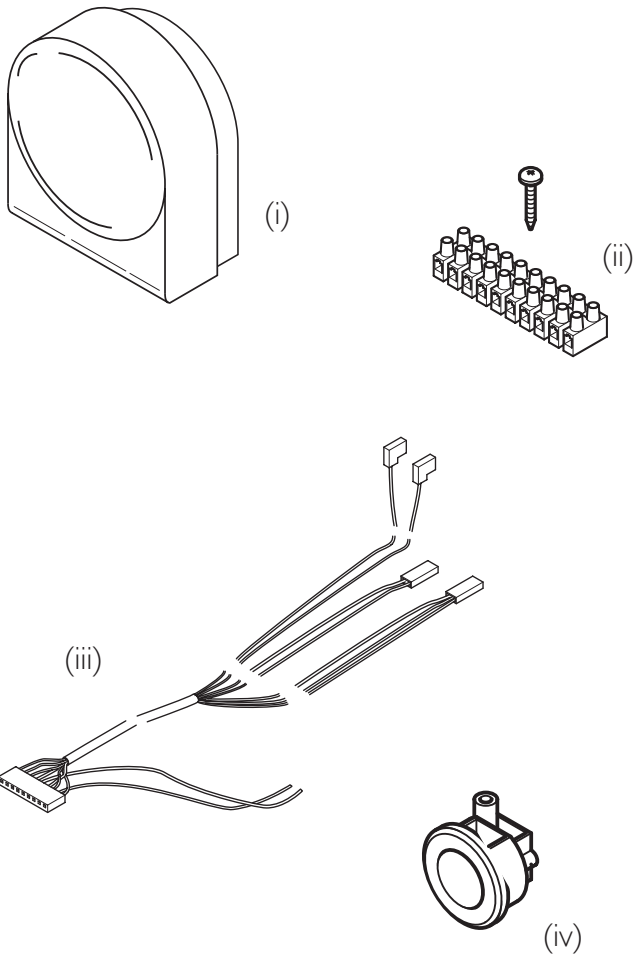
2. It must be connected to the boiler PCB as described in these instructions.

1.2 Contents of Kit

The kit contains:-

- Outdoor Sensor Unit (i)
- Terminal Strip & Screw (ii)
- Replacement Harness (iii)
- Cable Grommet (iv)

NOTE: Items ii, iii & iv are required only for boilers in Appliance Group 'A' as noted opposite.



2.0 Fitting the Outdoor Sensor

2.1 Location of the Sensor (Fig. 1)

1. The Sensor must be fixed to an external wall surface of the property it is serving.
2. The Sensor should be positioned on a north to west facing wall.

NOTE: DO NOT position it on a south facing wall in direct sunlight !

3. The Sensor should be approximately half the height of the living space of the property, and a minimum of 2.5m above ground level.

4. It must be positioned away from any sources of heat or cooling (e.g. flue terminal) to ensure accurate operation. Siting the Sensor above doors and windows, adjacent to vents and close to eaves should be avoided.

5. Once the position has been determined, prise the cover off the sensor and mark through the sensor body the two fixing holes and the larger hole for the wiring.

6. Drill & plug the two fixing holes (plugs and screws are supplied with the Sensor). Also drill the hole for the sensor wiring.

7. Insert the sensor wiring through the hole in the wall, leaving sufficient length outside to allow connection. Seal the hole. **Note: 0.5mm 2 core cable is recommended** (the Sensor is a low voltage device).

NOTE: If it is not possible to pass the wiring through the wall directly behind, remove the circular 'knock-out' panel in the sensor base to allow connection.

8. Using the screws provided fit the body to the wall. Insert the wires in the two-way terminal block and secure them. Replace the Sensor cover.

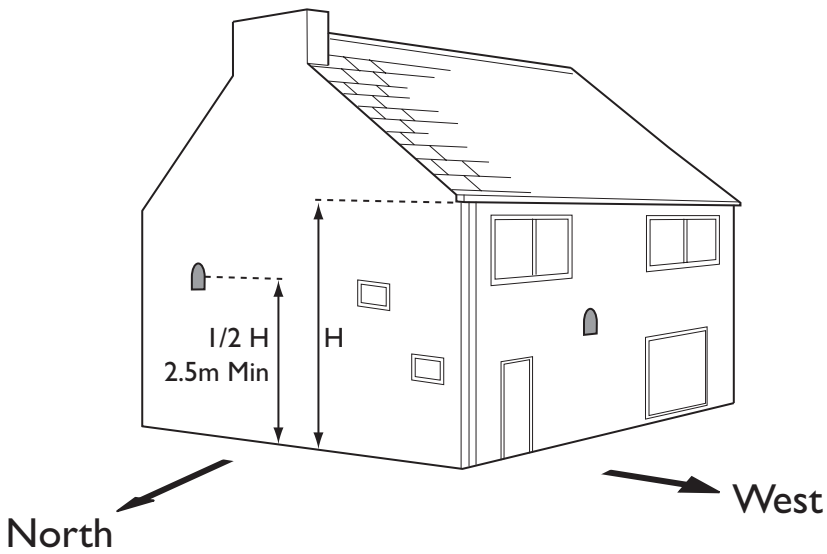
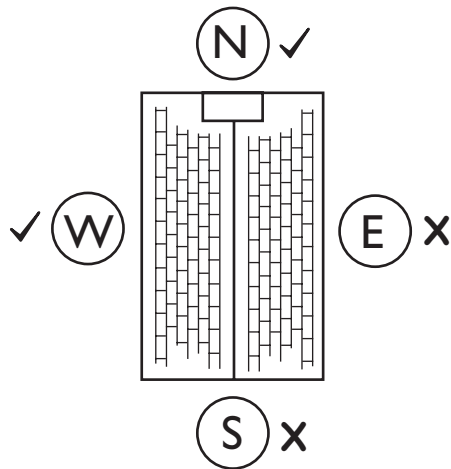


Fig. 1



3.0 Connection

3.1 Connecting the Sensor (APPLIANCE GROUP 'A' - see page 2)

1. Ensure that the electrical supply to the boiler is isolated. Undo the screws securing the fascia and lift off the front panel. Allow the fascia to drop down (Fig. 2).

2. Undo the screws securing the cover and release the cover retaining barbs from their slots. Disengage the rear of the cover from the fascia hinge pin and lift the cover away (Fig. 3).

3. Do not touch the PCB unnecessarily, and take care when removing and fitting connectors. The use of an earthing wristband is recommended.

4. Engage the 10 way terminal strip over the vertical flanges and secure with the screw supplied (Fig. 4).

5. Disconnect the harness connector from position X400 on the PCB (Fig. 5).

6. Disconnect from the Hall Effect Sensor, DHWNTC and Water Pressure Switch (Figs. 6 & 7).

7. Connect the new harness supplied to position X400 on the PCB.

8. Connect the harness terminals to the relevant boiler components (see Figs. 6 & 7).

9. Connect the two brown wires on the new harness to the terminal strip as shown (Fig. 8).

10. Route the wiring from the Outdoor Sensor to the boiler, and using the cable grommet supplied (Fig. 9) pass it through the hydraulic panel at the lower right.

11. Connect the Outdoor Sensor wiring to the terminals on the strip to which the brown wires are connected (Fig. 10).

12. Refit the cover, resecure the fascia and door panel and commission the boiler.

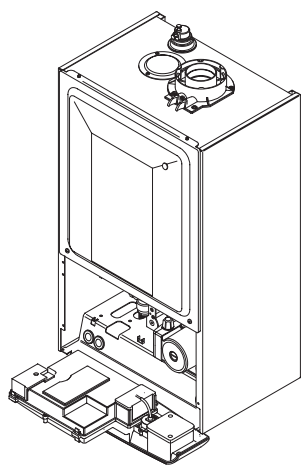


Fig. 2

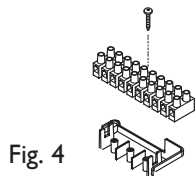
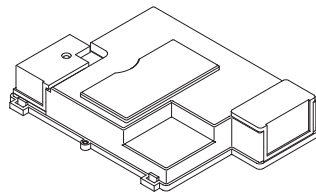


Fig. 4

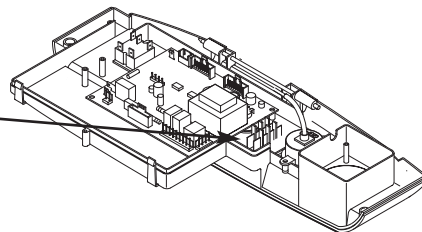


Fig. 3

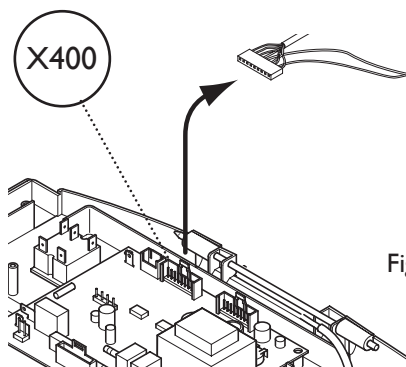


Fig. 5

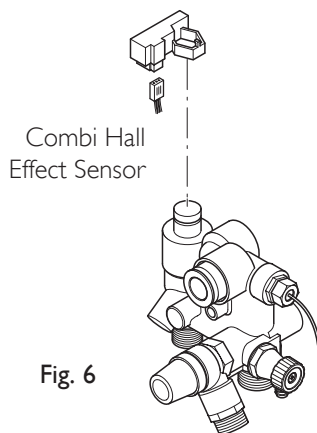


Fig. 6

Combi Water Pressure Switch & DHWNTC

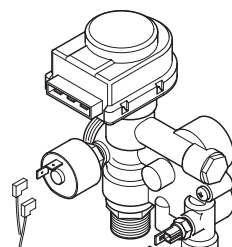


Fig. 7

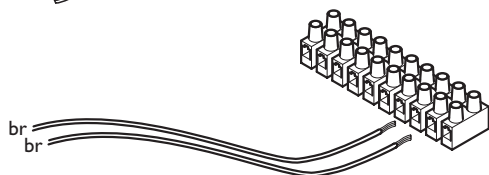


Fig. 8

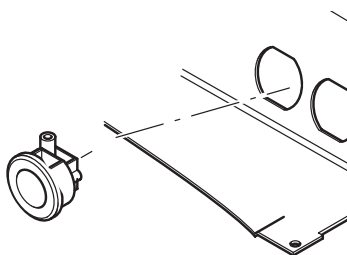


Fig. 9

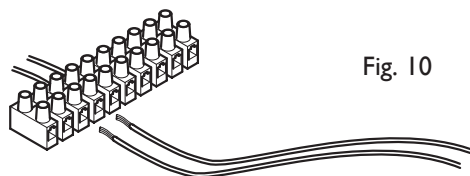


Fig. 10

4.0 Setting

4.1 Setting the Sensor Curve (APPLIANCE GROUP 'A' - see page 2)

NOTE: Depending upon model of boiler either of two types of Selector Switch and Central Heating Control Knob will be fitted.

1. Ensure that there is power to the boiler (though it is not necessary for there to be any heating demand). Turn the selector switch to the boiler ON position (Fig. 11).

2. The Central Heating Control Knob should be turned clockwise to the position in Fig. 12 which corresponds with the desired curve as shown on the graph below.

3. Normally the display will show the current temperature of the water in the boiler (e.g. 41°C, Fig. 13). As the knob is turned the display will show the selected curve (Fig. 14).

For example, if Curve 25 is selected, at an outside temperature of 5°C the boiler flow temperature will be 57°C. In the event of the outside temperature falling to 0°C, the boiler flow will increase to 63°C.

3. Continue with the installation and commissioning of the boiler as described in the Installation & Servicing Instructions.

4. Explain to the user how to select a different temperature curve

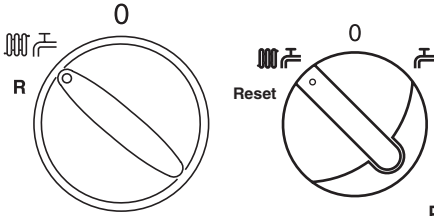


Fig. 11

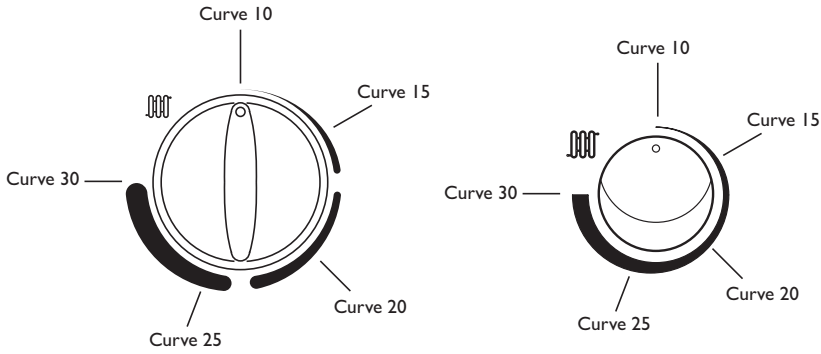


Fig. 12

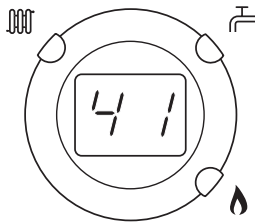


Fig. 13

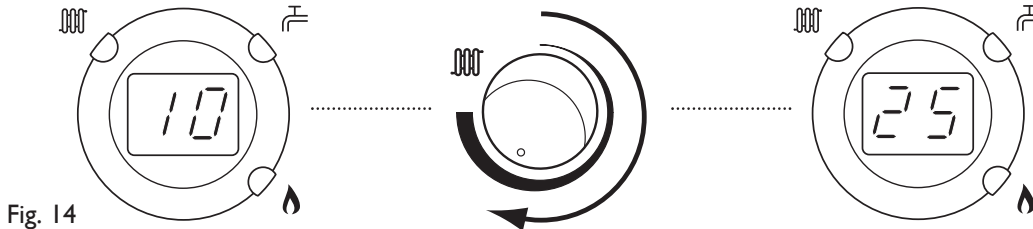
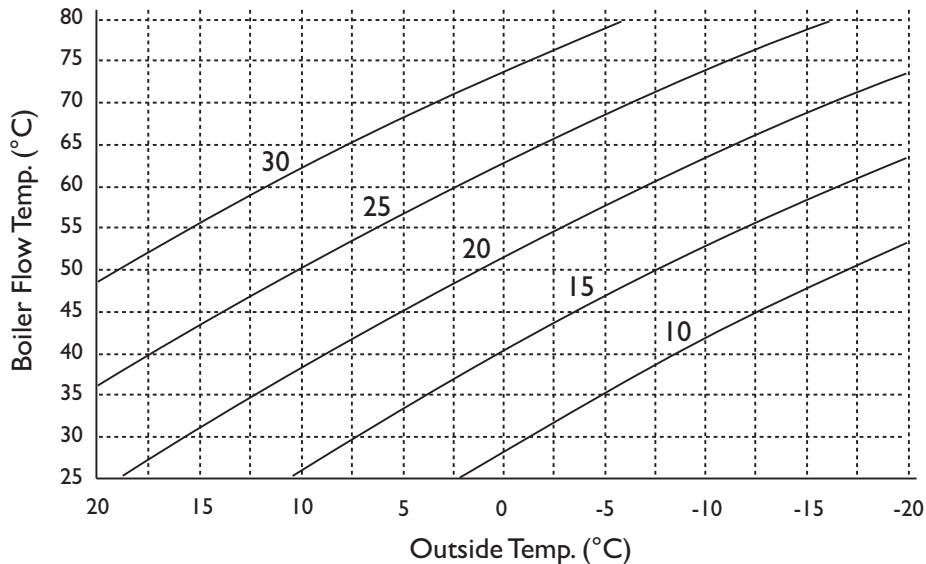


Fig. 14



5.0 Connection & Setting

5.1 Connecting the Sensor (APPLIANCE GROUP 'B' - see page 2)

1. Ensure the electrical supply to the boiler is isolated. Undo the securing screws and lift the case front panel off.
2. Disengage the securing tab and hinge the control box downwards. Undo the terminal block cover securing screw and remove the cover.
3. Remove one of the grommets, pierce the diaphragm and insert the wires from the Outdoor Sensor.
4. Leave sufficient slack in the wires to allow the Control Box to be hinged fully open. Refit the grommet.
5. Connect the wires from the Outdoor Sensor to positions 4 & 5 on M2 (Fig. 15). Refit the cover.

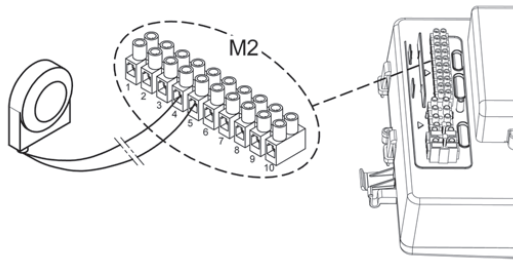


Fig. 15

5.2 Setting the Sensor Curve (APPLIANCE GROUP 'B' - see page 2)

1. Ensure that there is power to the boiler.
2. The Central Heating temperature buttons **||||-** & **||||+** are used to select the desired curve as shown on the graph.
3. Normally the display will show the current temperature of the water in the boiler (e.g. 41°C). As the buttons are pressed the curve identification code will be shown, from '00' to '90'.

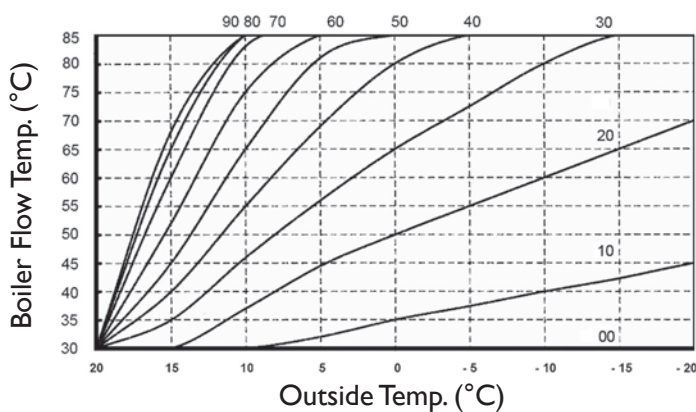


Fig. 16

For example, if Curve '40' is selected (Fig. 16), at an outside temperature of 5°C the boiler flow temperature will be just below 70°C. In the event of the outside temperature falling to 0°C, the boiler flow will increase to 80°C.

3. Continue with the installation and commissioning of the boiler as described in the Installation & Servicing Instructions.
4. Explain to the user how to select a different temperature curve.

6.0 User Information

6.1 User Information

NOTE: The Central Heating Temperature Control will NOT operate in the same way as described in the User Instructions supplied with the boiler !

1. Your installation has been fitted with an Outdoor Sensor that acts as a Temperature Compensation Device.
 2. The Outdoor Sensor enables the boiler to respond effectively to changes in the ambient temperature outside the dwelling.
 3. As the outside temperature decreases, the boiler flow temperature will increase, thus maintaining comfort levels within the dwelling.
 4. Your installer will have set the boiler according to the anticipated outside temperature range.
 5. If you require a different comfort level consult your installer or follow the instructions in Section 4.1 or 5.2 of this booklet, depending on boiler type. See the list on page 2 to determine which Section is relevant.
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