BAXI

LUNA 3 COMFORT

WIRELESS

INSTALLING THE RFIU01 BASE

The LUNA3 COMFORT AIR boiler is controlled by a radiofrequency (wireless) remote control / climate controller. The system comprises two separate units:

- The climate controller, known as **RFRC01**, is the boiler control unit which is used to set parameters, temperatures, operating states and view information and fault messages;
- The base, known as **RFIU01**, acts as an interface between the climate controller and the electronic card of the boiler.
- Connect the wires from boiler terminal block **M2** (Fig. 12) as illustrated in figure C.

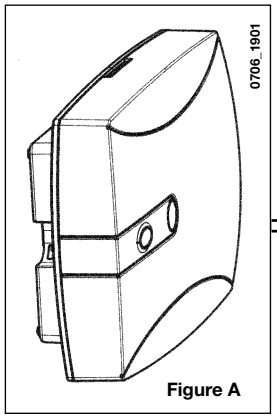

Figure A

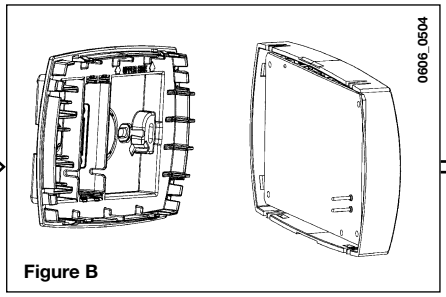

Figure B

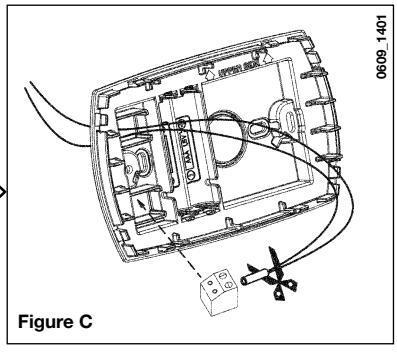

Figure C

WARNING: the base is powered at LOW VOLTAGE. Do not connect it to the 230 V mains supply. For electrical connections, see sections 26 and 31.

INSTALLING THE BASE ON THE BOILER FRONT PANEL

To fit the base inside the boiler front control panel, proceed as follows:

1. Undo the two screws (**a** and **b** figure 11) fixing the casing to the boiler;

2. Lift the casing slightly and with one hand push out the cover of the front panel (figure 11);

3. Push the climate controller into the relative housing on the front control panel without applying excessive force;

4. Close the casing and fix it to the boiler with the screws (figure 11).

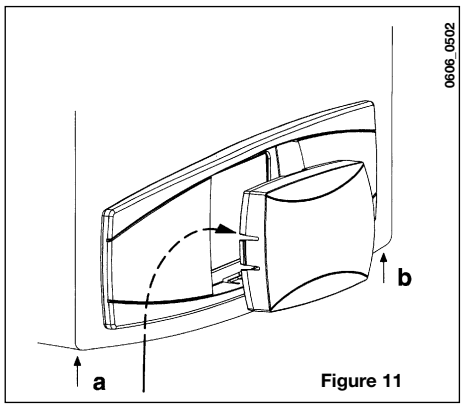

Figure 11

Connecting the room thermostat

- access the power supply terminal block (figure 10);
- connect the room thermostat terminals to terminals (1) and (2);
- power the boiler

WARNING:
If no ambient thermostat is fitted, jumper terminals 1-2 on the M1 terminal block of the boiler (figure 9).

INSTALLING THE BASE ON THE WALL

To mount the base on the wall, proceed as follows:

1. Undo the two screws (a and b figure 11) fixing the casing to the boiler;
2. Access the terminal block **M2**, as shown in the figure below;
3. Connect the two wires from the base to terminal block **M2** as shown in figure 12.

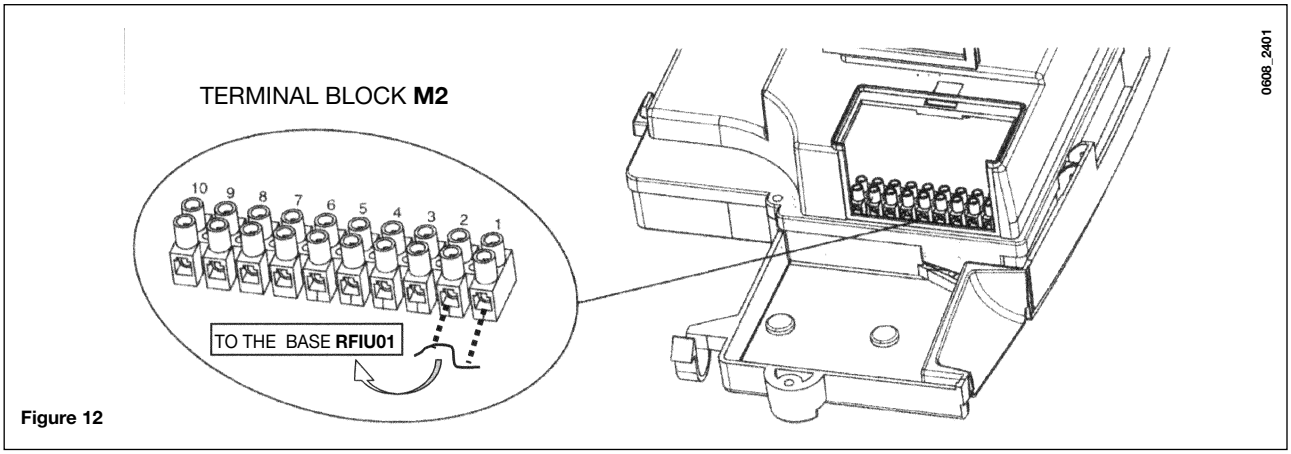

Figure 12

IMPORTANT: After installing the base, power the appliance and make sure the climate controller works properly.

LED MESSAGES ON THE RFIU01 BASE

The **LED** on the base flashes in different ways depending on its operating / fault status:

1) One short flash every 2 seconds means that the two units are communicating (section 17) and operating correctly (normal operating status);
2) Two consecutive short flashes every 2 seconds means that the base is communicating with the climate controller in radiofrequency (RF) but that Open Therm (OT) communication between the base and the boiler card is not working properly (make sure the wires are correctly connected or replace the base or the boiler card);
3) Three consecutive short flashes every 2 seconds means that the base is not connected (RF) with the climate controller (see section 17.5);
4) One long flash means that one or more commands are being sent from the climate controller to the base;
5) Long repeated flashes every second means that the two units are trying to communicate (it may be necessary to reset communication between the units by following the procedure described in section 17.4).

RF RADIOFREQUENCY ASSOCIATION OF THE RFRC01 CLIMATE CONTROLLER WITH THE RFIU01 BASE

To ensure correct system operation, the **RFRC01** climate controller must be "associated" (programmed) for communication with the **RFIU01** base connected to the boiler card.

Proceed as follows:
- Press **IP** for at least three seconds (section 19.1) to access the "**INFO**" screen;
- Press **OK** to scroll the parameter list to "**ZONE>**";
- Press ⏲☝ to display "**LINK>**";
- Press the button on the **RFIU01** base (near the LED);
- Press **OK** on the **RFRC01** climate controller:
  - if the display shows "**1**", **RFRC01** and **RFIU01** are communicating correctly, press **OK**;
  - if the display shows "**ERROR**" the two units are not communicating (in this case repeat the procedure, or replace the RFIU01 base),
- Press **OK** to display the **RFCHK** parameter and view the quality of the communication signal as described in section 17.5., or press **IP** to exit the programming mode.

17.4.1 Disabling the RF radiofrequency connection between the RFRC01 climate controller and the RFIU01 base

Follow the procedure described in the previous paragraph (17.4). Press ⏲☝ to display **1** (connection OK) followed by the message **REMV>** underneath.
Press **OK** to disable the connection (1 disappears from the display).

DISPLAYING THE QUALITY OF THE RF RADIOFREQUENCY SIGNAL BETWEEN THE RFRC01 CLIMATE CONTROLLER AND THE RFIU01 BASE

The quality of the **RF** communication signal depends on the type and layout of the system and may be affected by the presence of metal obstacles and/or intense radio transmissions. An indicative quality level of RF communication between the climate controller and the base can be displayed:

0 = RF connection absent, no communication possible;
1 = RF connection present but communication level insufficient;
2 = RF connection present, communication level sufficient;
3 = RF connection present, communication level fair;
4 = RF connection present, communication level excellent;

Position the base in order to obtain communication level **RF=4** as this will guarantee correct system operation.

REPLACING THE BATTERIES IN THE REMOTE CONTROL UNIT (FIG. 1.1)

Replace the batteries when (🪫) appears on the display.
To ensure the remote control unit works correctly, however, change the batteries once a year. To replace the batteries, see figure 1.1 in chapter 3.

CAUTION
If the display does not work correctly, try changing the batteries.