8 Operation

8.1 Use of the control panel
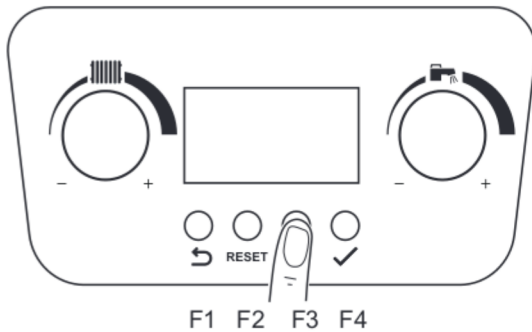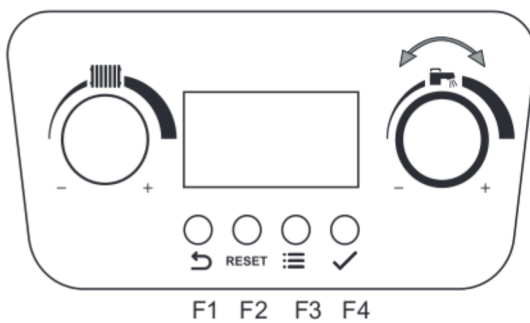
Fig. 48   Accessing the menus

Fig. 49   Scrolling through the menus & settings

8.1.1 Browsing the menus

1. To activate the control unit, press any button.
2. To access the settings available from the menu, press the **F3** key.

Available menu options:

ⓘ	Information menu
👤	User menu
🧑‍🔧	Installer menu
⊗	Error menu
🕐	Counter menu

3. Turn the 🔥 knob to select the menu or to scroll through the settings.
4. Press the **F4** key to confirm selection of the required menu.
5. Turn the 🔥 knob to scroll through the list of settings. Press the **F4** key to confirm selection of the setting.
6. Turn the 🔥 knob to modify the setting. Press the **F4** key to confirm the setting has been changed.
7. Press the **F1** key to return to the home screen.

> **i** **Important**
> The display shows the home screen if no keys are pressed for two minutes. If this happens, the procedure needs to be repeated.

8.1.2 Running the automatic detection function

After removing or replacing a PCB accessory board (not main PCB), an auto-detect must be carried out.

1. Select the installer menu and type in the password to enter.
2. Turn the 🔥 knob until **AD** is displayed.
3. Press the **F4** key and **-AD-** appears on the display.
4. Press the **F4** key again to activate the function.

8.2 Changing temperature

Fig. 50   Scrolling through the menus & settings
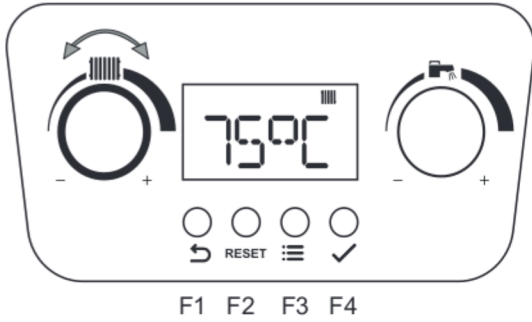
8.2.1   Changing the heating flow temperature

1. Use the [||||] knob to adjust the flow temperature in heating mode.

- Turn the knob anti-clockwise to reduce the temperature value.

- Turn the knob clockwise to increase the temperature value.

- Recommended flow temperature for central heating is around 60 °C. However, this can vary based on the home's insulation, weather conditions and personal preference.
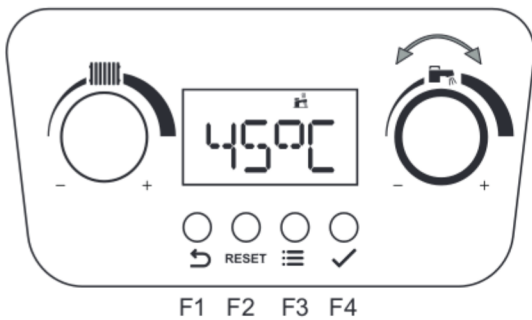
> **i** **Important**
> With an outside sensor connected it is possible to lower the setpoint value.

2. Press the **F4** key to confirm the value or wait a few seconds until the value is automatically saved.

> **i** **Important**
> The flow temperature is matched automatically when using a:
> - Weather-dependent regulator.
> - OpenTherm regulator.

Fig. 51   Scrolling through the menus & settings

8.2.2   Changing the domestic hot water temperature

1. Use the [🚿] knob to adjust the flow temperature in heating mode.

- Turn the knob anti-clockwise to reduce the temperature value.

- Turn the knob clockwise to increase the temperature value.

2. Press the **F4** key to confirm the value or wait a few seconds until the value is automatically saved.

8.3 Shutdown

8.3.1 Switching off the heating and domestic hot water

Heating mode can also be disabled by turning the ‖‖‖ knob anti-clockwise until the word **OFF** appears on the display.

> **i** **Important**
> When heating mode is re-enabled check, by turning the knob, that the comfort temperature is that requested.

> **i** **Important**
> Heating is disabled but the boiler frost protection function remains activated.

Domestic hot water mode can also be disabled by turning the 🚿 knob anti-clockwise until the word **OFF** appears on the display.

To switch the boiler off completely, turn off the power supply to the appliance and close the gas cock.

> **i** **Important**
> In this condition, the boiler and the heating installation are not protected against frost.

8.4 Deaeration function

The purpose of this function is to deaerate the heating installation. After installing the boiler, the function activates immediately when the boiler is first started up. The function automatically activates each time the boiler power supply is turned off and then on again.
To start the function manually:
- Access the installer menu and enter the password.
- Turn the 🚿 knob until "**DEAIR**" is displayed.
- Press the **F4** knob and **-AIR-** appears on the display
- Press the **F4** knob again to activate the function.

8.5 Frost protection

Where possible, draining the system should be avoided. If the system is to be unused during periods of low temperature several precautions must be taken: Any parts of the system that are in unheated areas of the dwelling should be fitted with a device such as a pipe thermostat or frost thermostat.

Power must remain supplied to the boiler and controls. Gas must remain supplied to the boiler.

The boiler pump will operate if the system temperature drops below 7°C. If the temperature falls to 4°C the burner will ignite and remain lit until the temperature reaches 10°C. This feature will protect the boiler and to some extent adjacent parts of the system but additional devices must be incorporated to ensure complete frost protection.
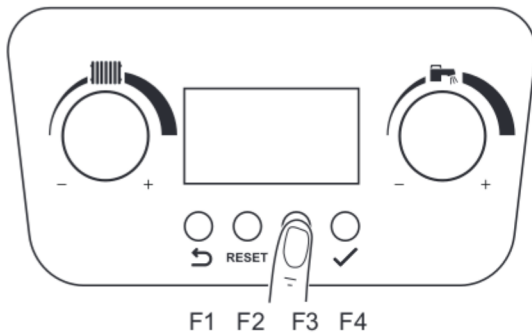
> **i** **Important**
> If power does not remain supplied to the boiler and controls and gas to the boiler frost protection will not operate.

9 Settings

9.1 Accessing the settings

Fig. 52 Accessing settings

To display/change the list of SERVICE settings, proceed as follows:

- Press the **F3** key - the ⊙ symbol on the menu bar will start to flash
- Turn the 🔥 knob until the 👤 symbol is reached to access user settings
- Turn until the 🔧 symbol is reached to access installer settings then press **F4** key to confirm
- If accessing the installer menu use the 🔥 knob to enter code **0012** and confirm by pressing **F4** the key
- Turn the 🔥 knob until the desired setting is reached then press **F4** key to confirm

Fig. 53 Modifying settings
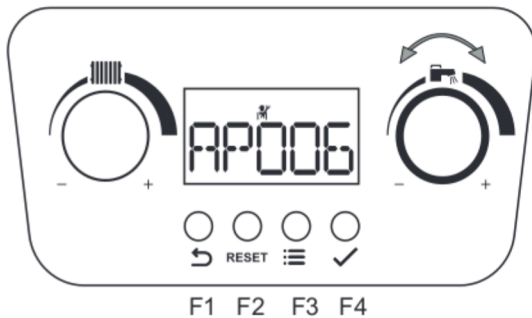
- Modify the value of the setting using the 🔥 knob
- Press **F4** to confirm
- Press **F1** to exit

9.2 List of parameters

Name	Description	Factory value	Minimum	Maximum	Level
AP073	Average external temperature [°C] when switching from summer/winter mode (with outside sensor)	22	10	30	User
AP079	Building insulation level (with outside sensor) 0: Poorly insulated building 15: Well insulated building	3	0	15	Installer
CP000	Max. settable heating setpoint temperature [°C]	80	25	80	Installer
CP020	Zone function 0: Disabled 1: Enabled	1	-	-	Installer
CP210	Comfort mode heating curve offset (with outside sensor)	15	15	90	Installer
CP230	Heating curve slope (with outside sensor)	1.5	0	4	Installer
CP470	Number of days required for the screed drying program	0	0	30	Installer
CP480	Screed drying starting temperature [°C]	20	20	50	Installer
CP490	Screed drying stop temperature [°C]	20	20	50	Installer
CP780	Zone control strategy selection 0: Automatic 1: Room Temp. based 2: Outdoor Temp. based 3: Outdoor & room based	0	-	-	Installer

9.3 Setting the parameters
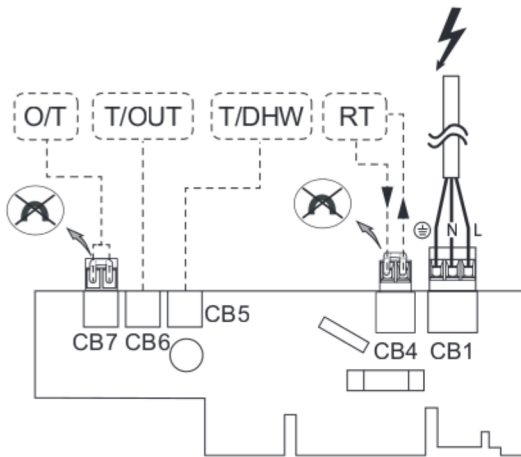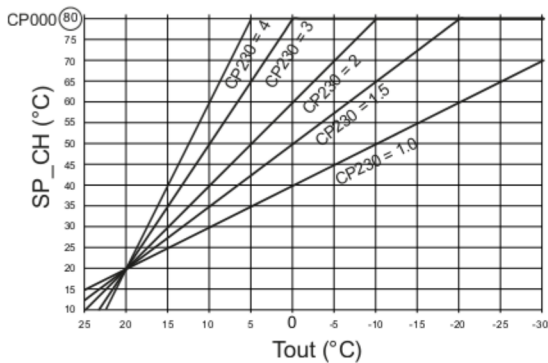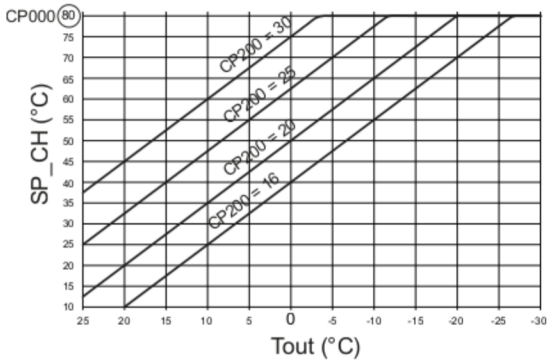
Fig. 54 Outdoor sensor connection

9.3.1 Setting the heating curve

Connect the outside sensor to terminal CB6 and connect the "On/Off" type room thermostat or the "OpenTherm" type room unit to terminal CB7 of the connection board after having removed the jumper.

> **ℹ Important**
> If the heat curve is set via an OpenTherm room unit, do not set the heat curve with these parameters.

The procedure for accessing the settings is the same as that described in the previous section. To set the curve, change the following settings:
- CP000: Heating flow maximum temperature set point.
- CP210: comfort mode climatic curve offset from 15 to 90 (with external probe). Do not change the slope of the curve.
- CP230: setting of the slope of the climatic curve from 0.0 to 4.0.

Fig. 55 Heating curve graphs

To set the curve, follow the procedures below:

CP 200 sets the base curve that would be required for the user, the higher the value the higher the flow temperature at any given outside temperature.

Consider what the customer would want the actual flow temperature to be at an outside temperature of 20°C, graph gives the CP value.
Recommended CP200 Value = 25

CP230 is to change the gradient of the curve to suit winter months.

If the property has a low heat loss a low value can be set. If the heat loss is high the value should be set higher.
Recommended CP230 Value = 3

> **⚠ Danger**
> For low temperature heating installations modify setting CP000 according to the maximum flow temperature required for the system, e.g. lower temperatures for underfloor heating.

Tout: temperature detected by the outside sensor (°C)
SP_CH: Heating flow temperature setpoint (°C)