



CONTROLS GUIDE

IMAX XTRA 2
80 120 160 200 240 280
80P 120P 160P 200P 240P

When replacing any part on this appliance, use only spare parts that you can be assured conform to the safety and performance specification that we require. Do not use reconditioned or copy parts that have not been clearly authorised by Ideal Heating.

For the very latest copy of literature for specification and maintenance practices visit our website idealheating.com where you can download the relevant information in PDF format.



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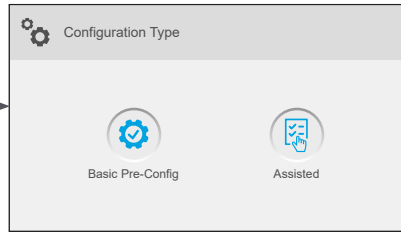
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SECTION 1 - USER INTERFACE (CP)

1 COMMISSIONING PROCESS

1.1 USER INTERFACE INITIAL COMMISSIONING PROCESS

COMMISSIONING PROCESS



Basic Pre-config is Switched Live control of 1x Heating Circuit & 1x Hot Water Circuit
A DHW pump output and HC pump is also available
Go to configurations list page in Section 1.2**

Basic Pre-Config

Assisted

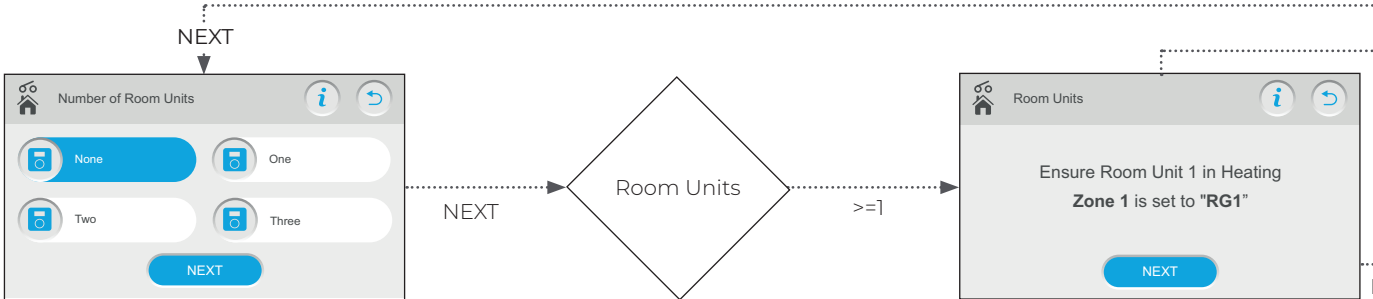
When the boiler is powered up for the first time the above screen will be shown.

The HMI touchscreen has a protective screen fitted which needs removing. Safely and responsibly dispose of the protective screen.

To accept the default configuration or modify from the Menu press **Basic Pre-Config** (Menu operation Frame 2.26)

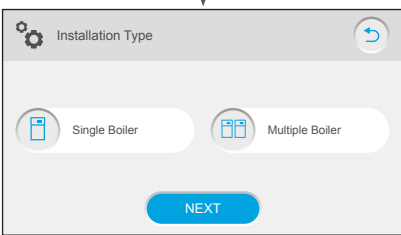
Default Configuration:-
Switched Live Control
DHW Thermostat via Switched Live
Automatic Outside Sensor Detection
Boiler Pump: Relay Control
CH Pump available, DHW Pump available
Fault Relay available, Burner On Relay available

Note. If Basic Pre-config is chosen and the boiler is to be reconfigured at a later date please complete a factory reset before reconfiguration (detailed internal boiler control instruction are available online at idealheating.com)



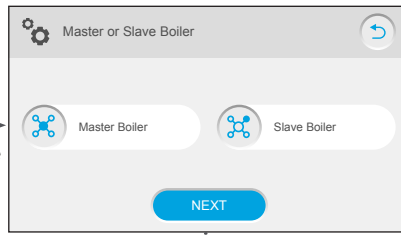
If Switched Live/OpenTherm or 0-10V Control is required select **None** and then press **NEXT**

If Internal Boiler Control with QAA55 is required select number of QAA55 and then press **NEXT**



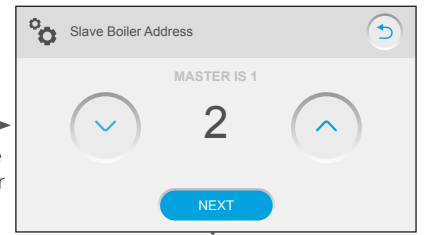
If standalone boiler is required select **Single Boiler** and then press **NEXT**

If Multiple boiler is required select **Multiple Boiler** and then press **NEXT**

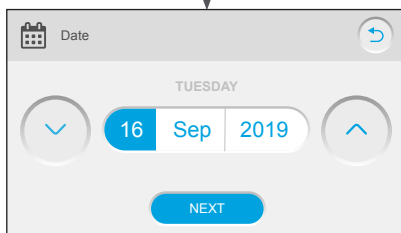


If Master boiler is required select **Master Boiler** and then **NEXT**

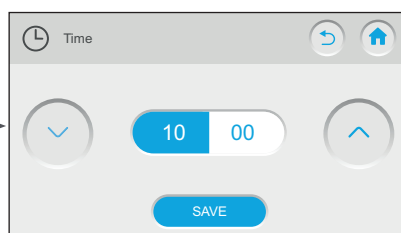
If Slave boiler is required select **Slave Boiler** and then press **NEXT**



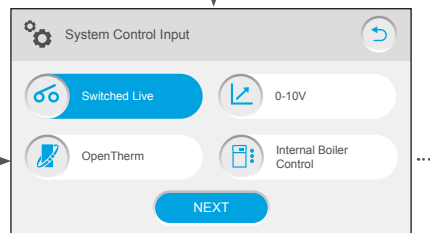
NEXT



Change the date using the Up and Down arrows and press **NEXT**



Change the time using the Up and Down arrows and press **NEXT**



If Switched Live Control is required select **Switched Live** and then **NEXT**
If OpenTherm Control is required select **OpenTherm** and then **NEXT**
If 0-10V Control is required select **0-10V** and then **NEXT**
If Internal Boiler Control is required select **IBC** and then press **NEXT**

Note - Management of Multiple Boilers from boiler not currently available. Internal Cascade management coming Q3 2021. Choose SINGLE BOILER until further notice.

SECTION 1 - USER INTERFACE (CP)


Room Units & Extension Modules

Ensure all Room Units and Extension Modules are connected if they are required.


NEXT

Room Units & Extension Modules Information

Room Unit



Extension Module



Note. Room Units QAA55 are a dedicated controls accessory for the Imax2 boiler that provide the function of an adjustable room sensor.

If no Room Units or Extension Modules are required press **NEXT**

If any required Room Units and Extension Modules are connected press **NEXT**

Room Units are only required if Internal Boiler Control is to be used for Heating Zones.

1 Room Unit is required for each Heating Zone
Ideal optional extra part number UIN 225461.

Extension Modules are only required if Internal Boiler Control is to be used for multiple Heating Zones or if Internal Boiler Control is required for a Boiler Cascade or if a 0-10V Pump is to be controlled.

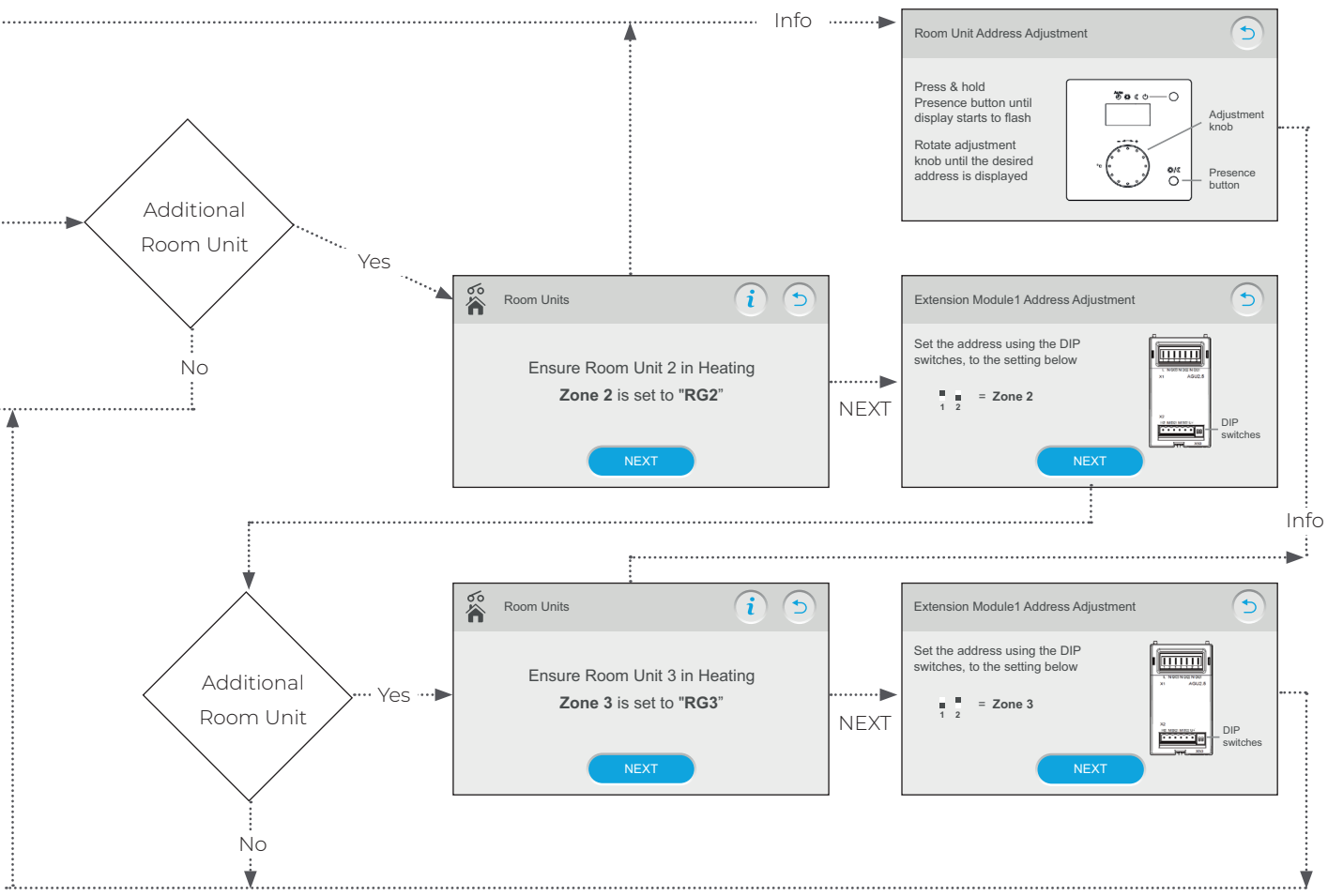
1 Extension Module is required for a total of 2 Central Heating circuits
Ideal optional extra part number UIN 225389.

2 Extension Modules are required for a total of 3 Central Heating Circuits
Ideal optional extra part number UIN 225390.

An LPB Module is required for each boiler within the cascade
Ideal optional extra part number UIN 225392.

The 0-10V Pump Module has Ideal optional extra part number UIN 225391.

Power the system off whilst connecting Room Units and Extension Modules.



- Goto frame Switched Live Configuration
- Goto frame OpenTherm Configuration
- Goto frame 0-10V Configuration
- Go to frame IBC Configuration

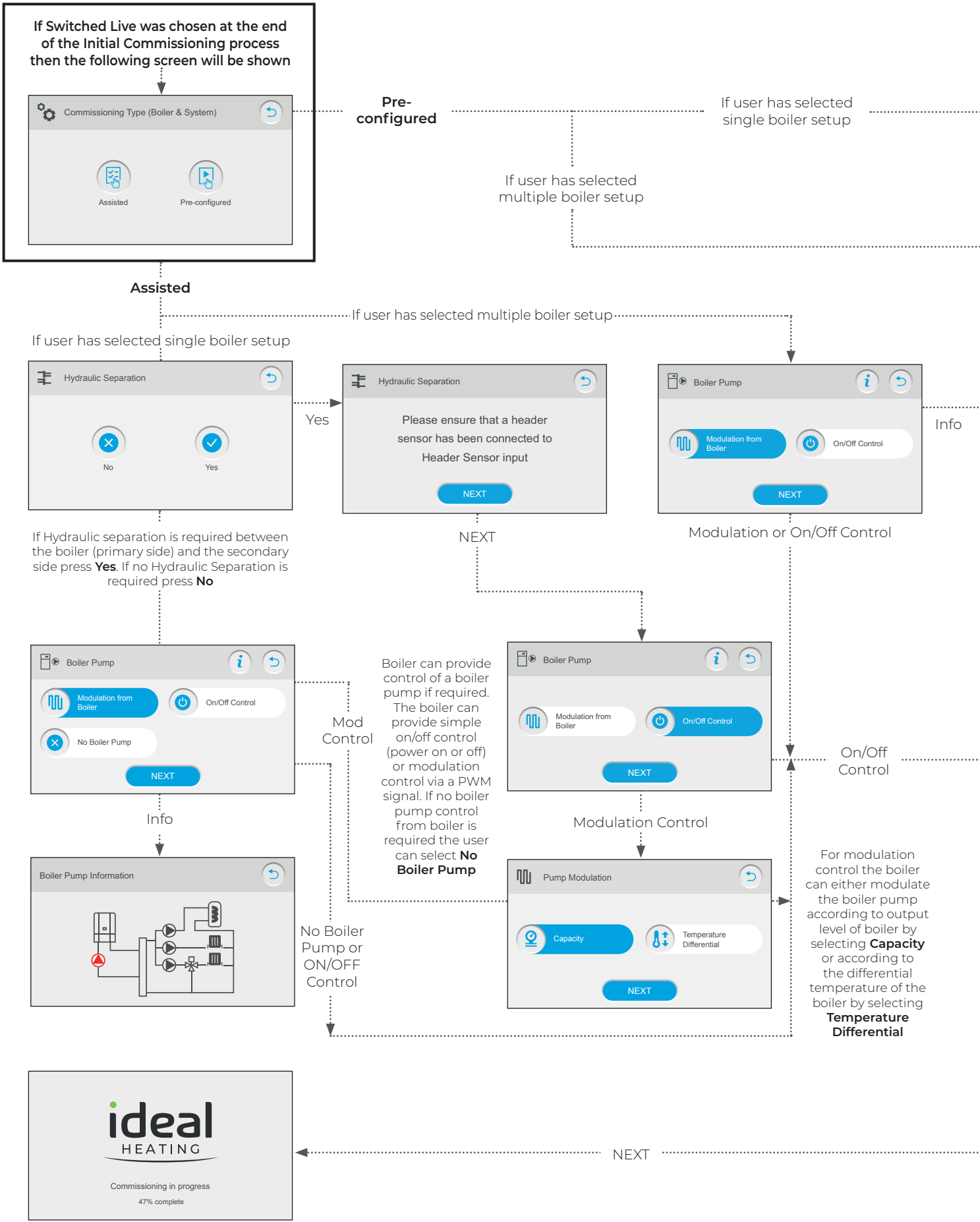
For basic "heat only" installations where the boiler is simply providing heat input in response to a **Switched Live, 0-10V** or **OpenTherm** demand input there are **Pre-configured** options provided in the boiler.

A detailed set of Internal Boiler Control Instructions are available online at idealheating.com

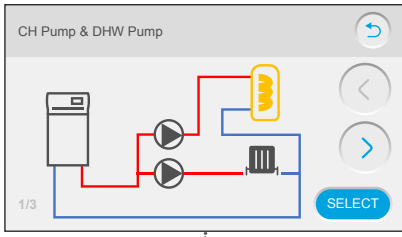
SECTION 1 - USER INTERFACE (CP)

1.2 USER INTERFACE SWITCHED LIVE COMMISSIONING PROCESS

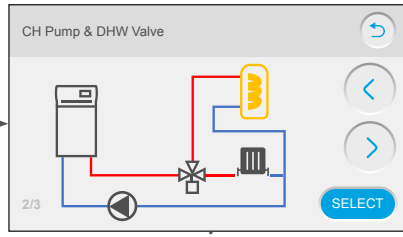
COMMISSIONING PROCESS



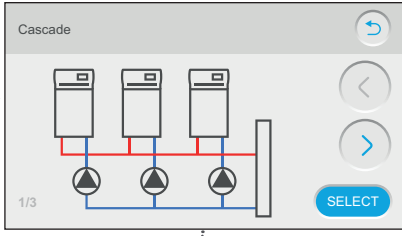
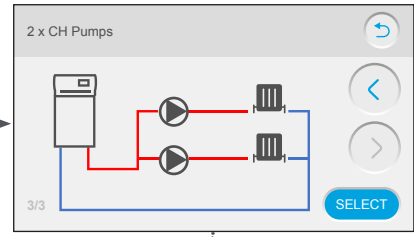
SECTION 1 - USER INTERFACE (CP)



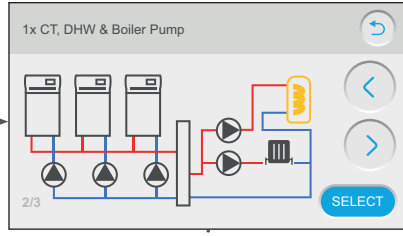
Press



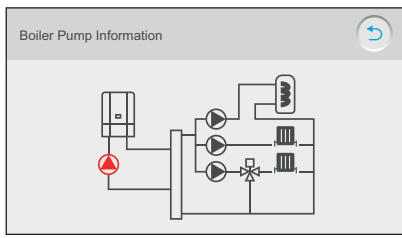
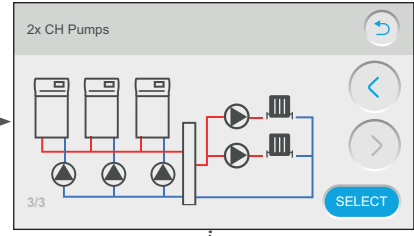
Press



Press



Press



For basic "heat only" installations we suggest using the pre-configured diagram for **2 x CH Pumps**

Outputs provided by the pro-configured option do not have to be wired if they are not required. Simply provide a **Switched Live** demand signal to the boiler.

The first switched live is reserved for heating circuit 1 control.

If the second switched live is required for heating circuit 2 control select **Central Heating Circuit 2**.

If the second switched live is required for hot water control select **Hot Water**.

If no additional circuit control is required select **Central Heating Circuit 2**.

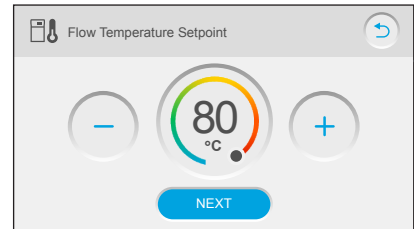
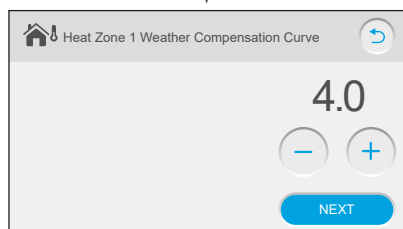
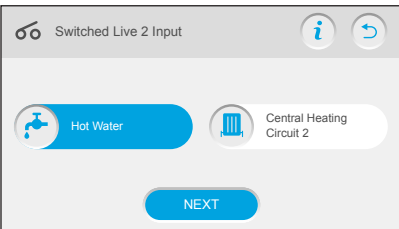
Hot Water or Central Heating 2

If outside sensor is detected

If no outside sensor is detected

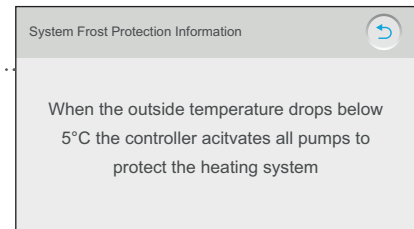
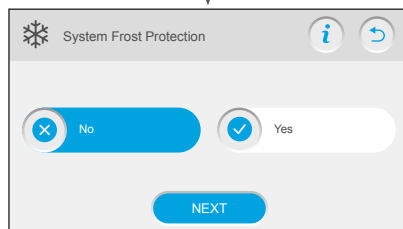
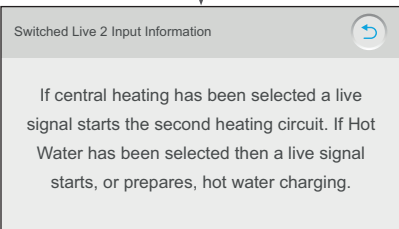
This determines the gradient of the heat curve used to determine flow temperature based on the current outside temperature.

Refer to Heating Curve Diagram on p41

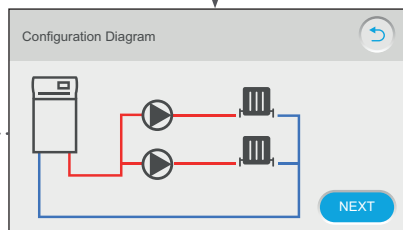
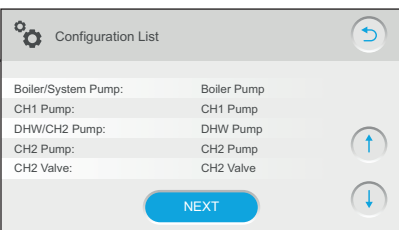


Info

NEXT



Info



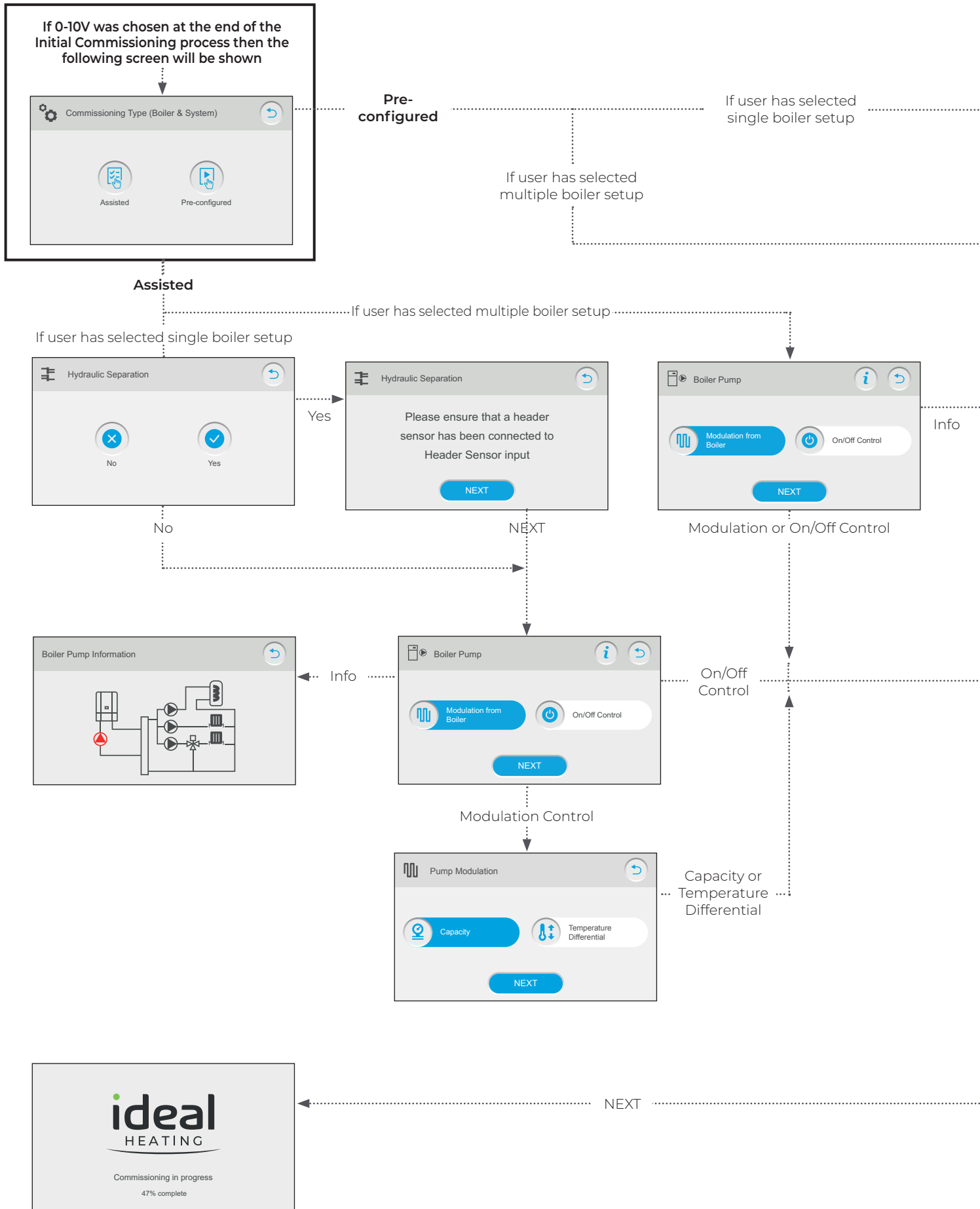
NEXT

NOTE: Configuration diagram changes depending on selections.

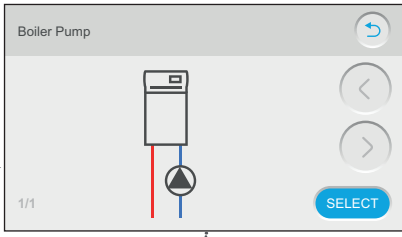
SECTION 1 - USER INTERFACE (CP)

1.3 USER INTERFACE 0-10V COMMISSIONING PROCESS

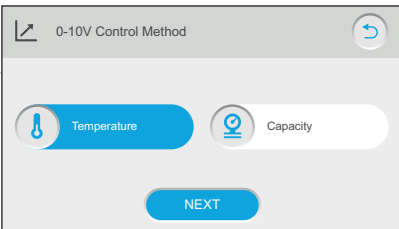
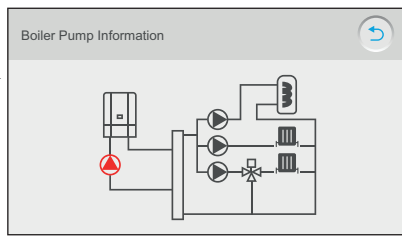
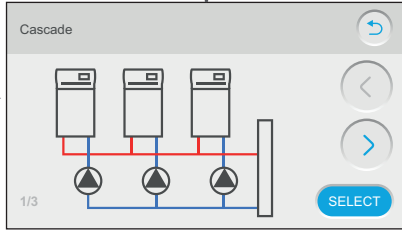
COMMISSIONING PROCESS



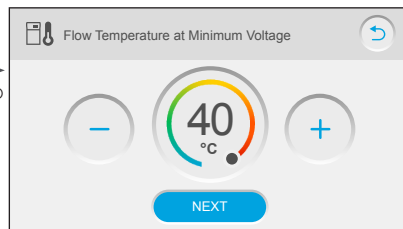
SECTION 1 - USER INTERFACE (CP)



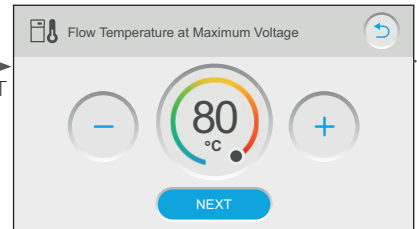
Select



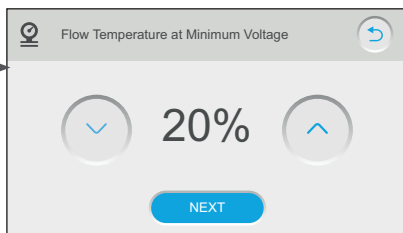
Temp



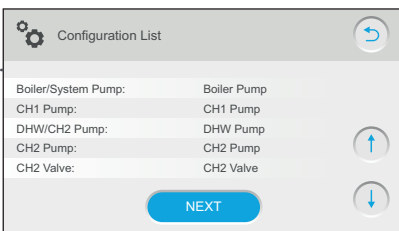
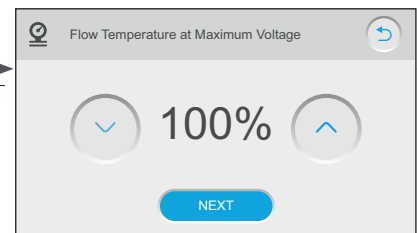
NEXT



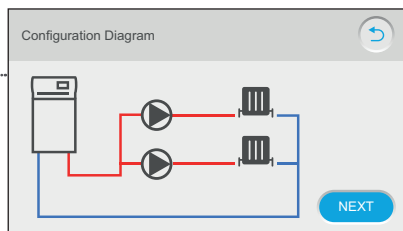
Capacity



NEXT



NEXT

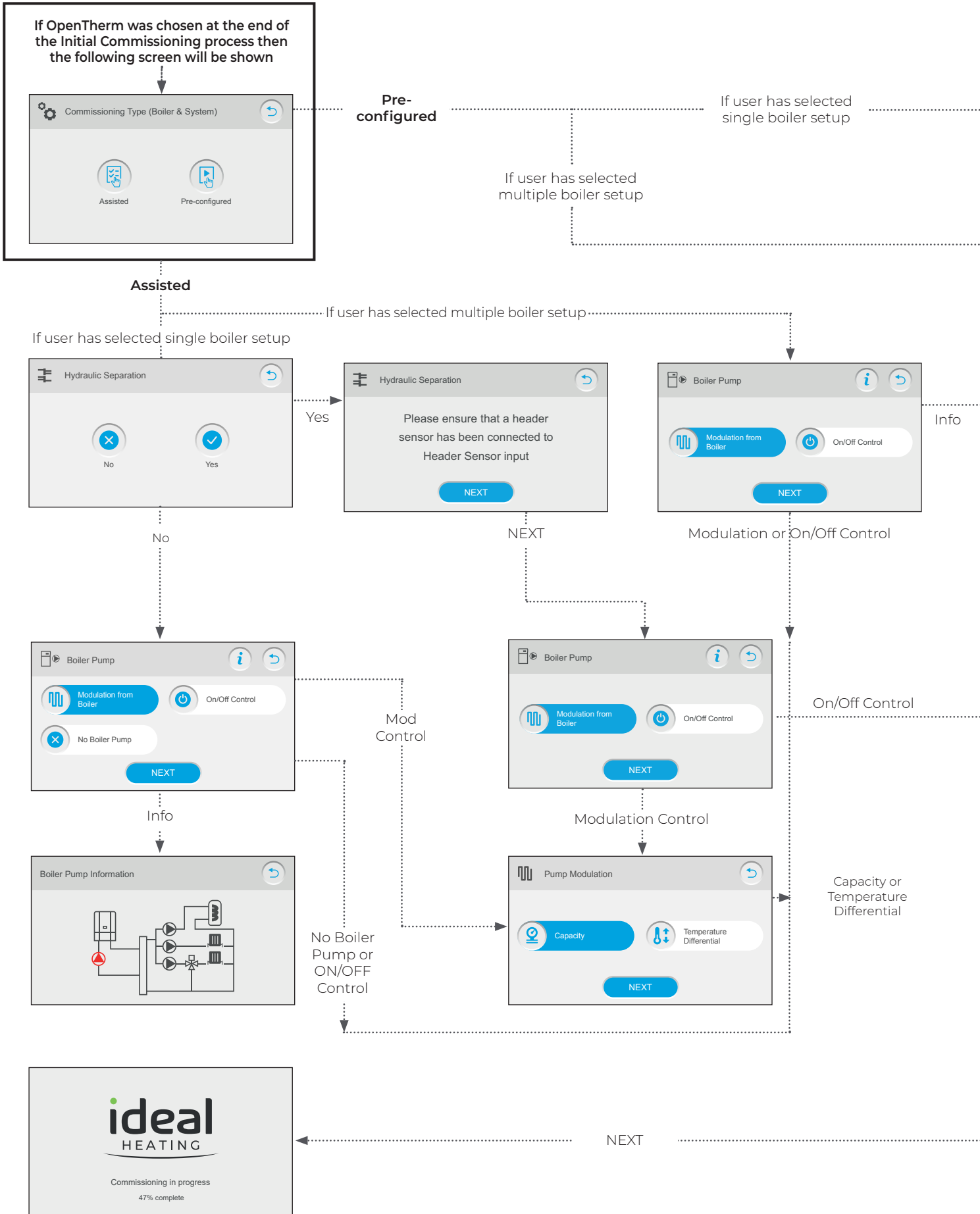


NEXT

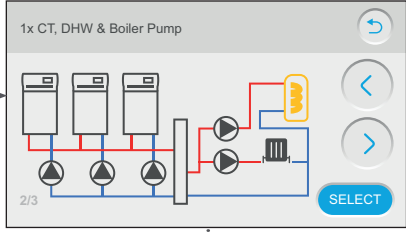
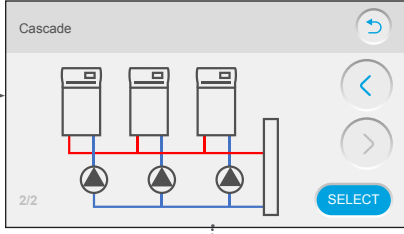
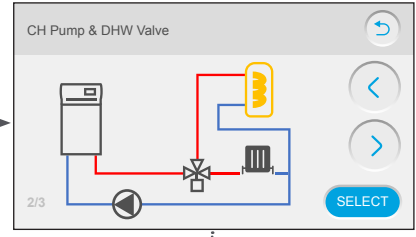
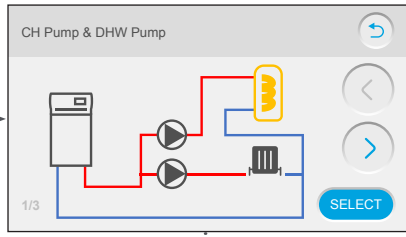
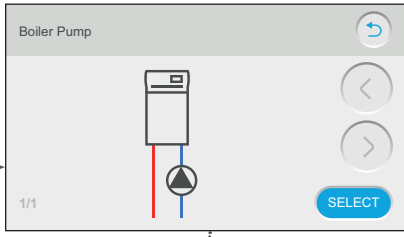
SECTION 1 - USER INTERFACE (CP)

1.4 USER INTERFACE OPENTHERM COMMISSIONING PROCESS

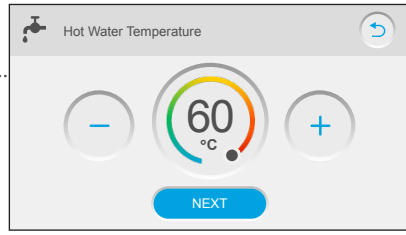
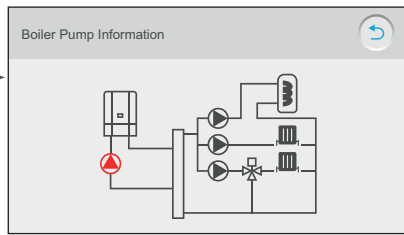
COMMISSIONING PROCESS



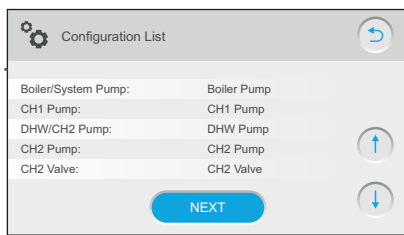
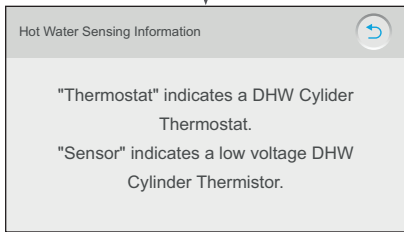
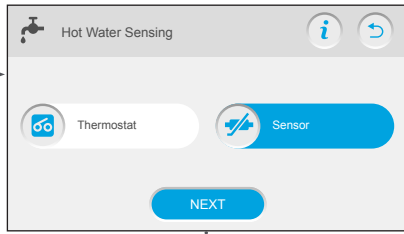
SECTION 1 - USER INTERFACE (CP)



For basic "heat only" installations we suggest using the pre-configured diagram for **2 x CH Pumps**. Outputs provided by the pre-configured option do not have to be wired if they are not required. Simply provide an **OpenTherm** demand signal to the boiler.



The OpenTherm can only control one heating circuit. The second circuit is only for hot water. If control of hot water is by cylinder stat select **Thermostat**. If control of hot water is by thermistor select **Sensor**. If no hot water control is required select **Thermostat**.

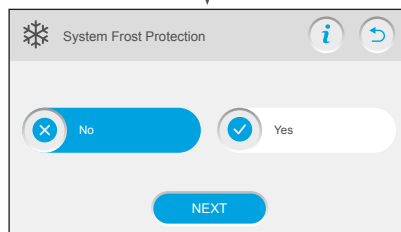


Sensor

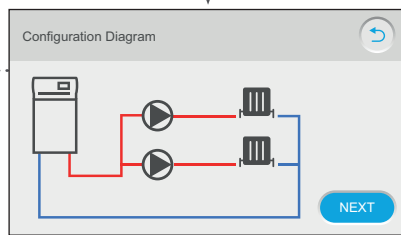
Stat

If no outside sensor is detected

If outside sensor is detected



Note that enabling System Frost Protection will cause the pump to run continuously if the outside temperature is less than -4°C

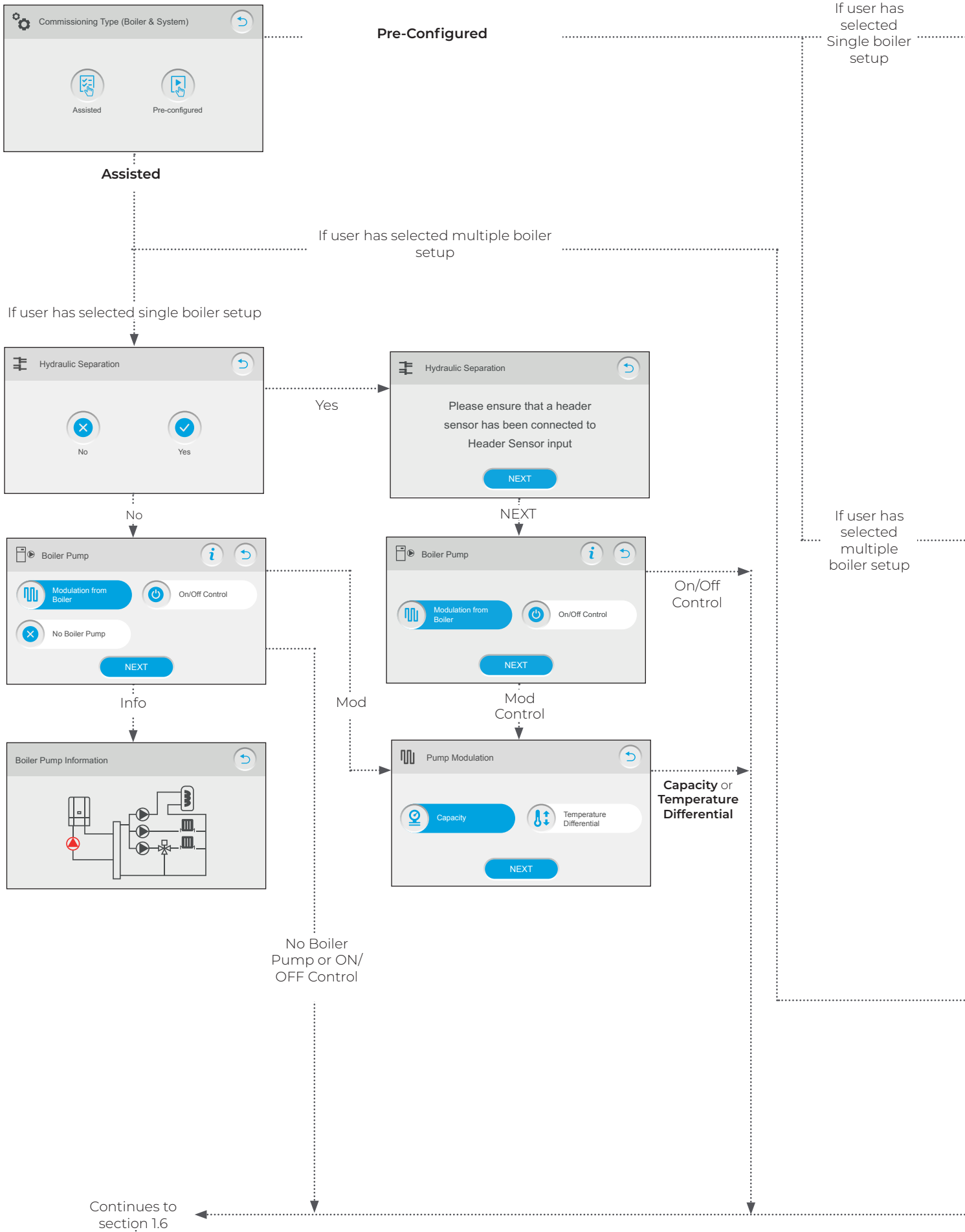


NOTE: Configuration diagram changes depending on selections.

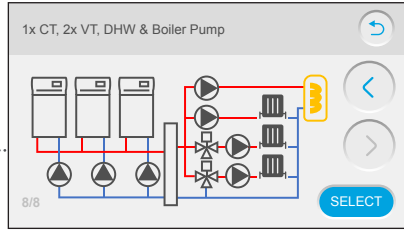
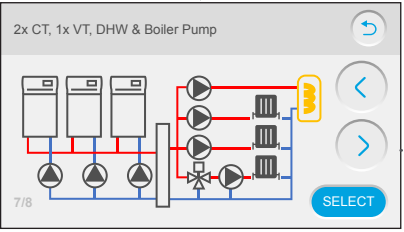
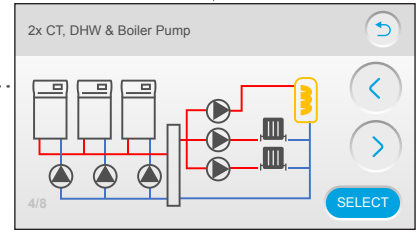
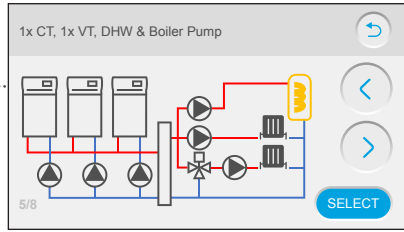
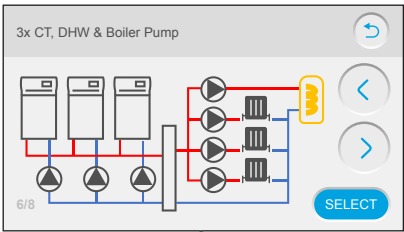
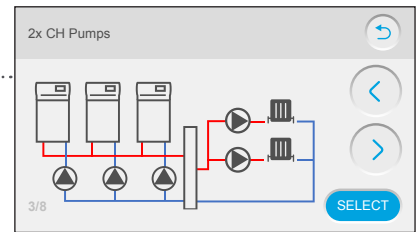
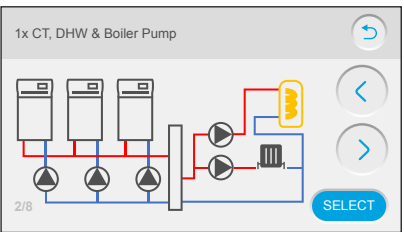
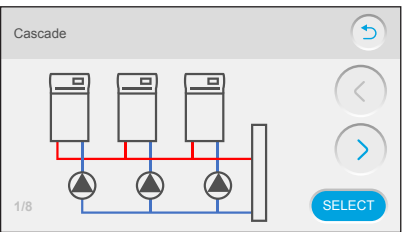
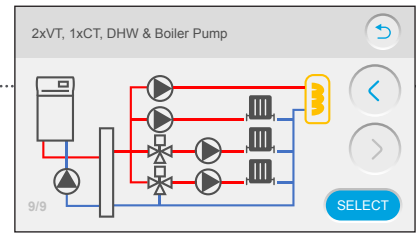
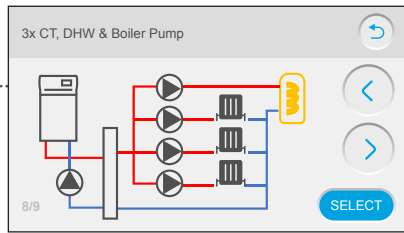
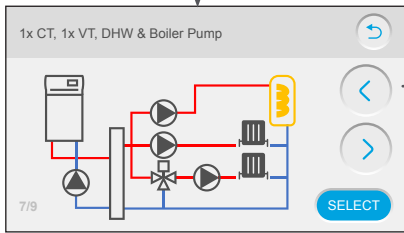
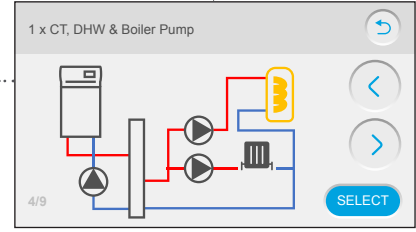
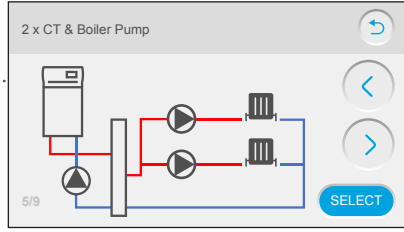
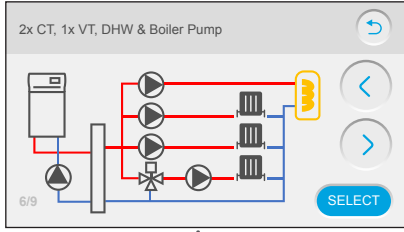
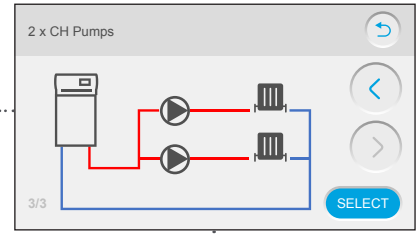
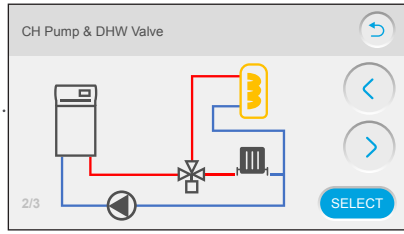
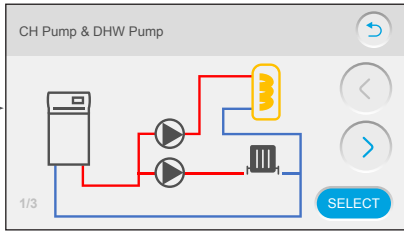
SECTION 1 - USER INTERFACE (CP)

1.5 USER INTERFACE INTERNAL BOILER CONTROL, PRECONFIGURATIONS & BOILER PUMP

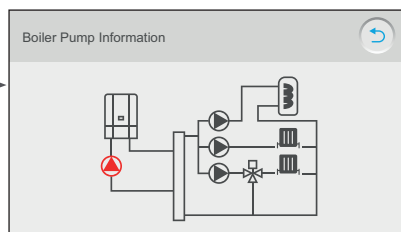
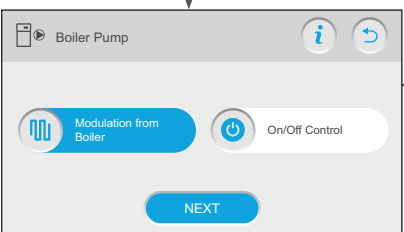
COMMISSIONING PROCESS



SECTION 1 - USER INTERFACE (CP)



If select is pressed on any preconfig the flow goes to Configurations List page section 1.8***



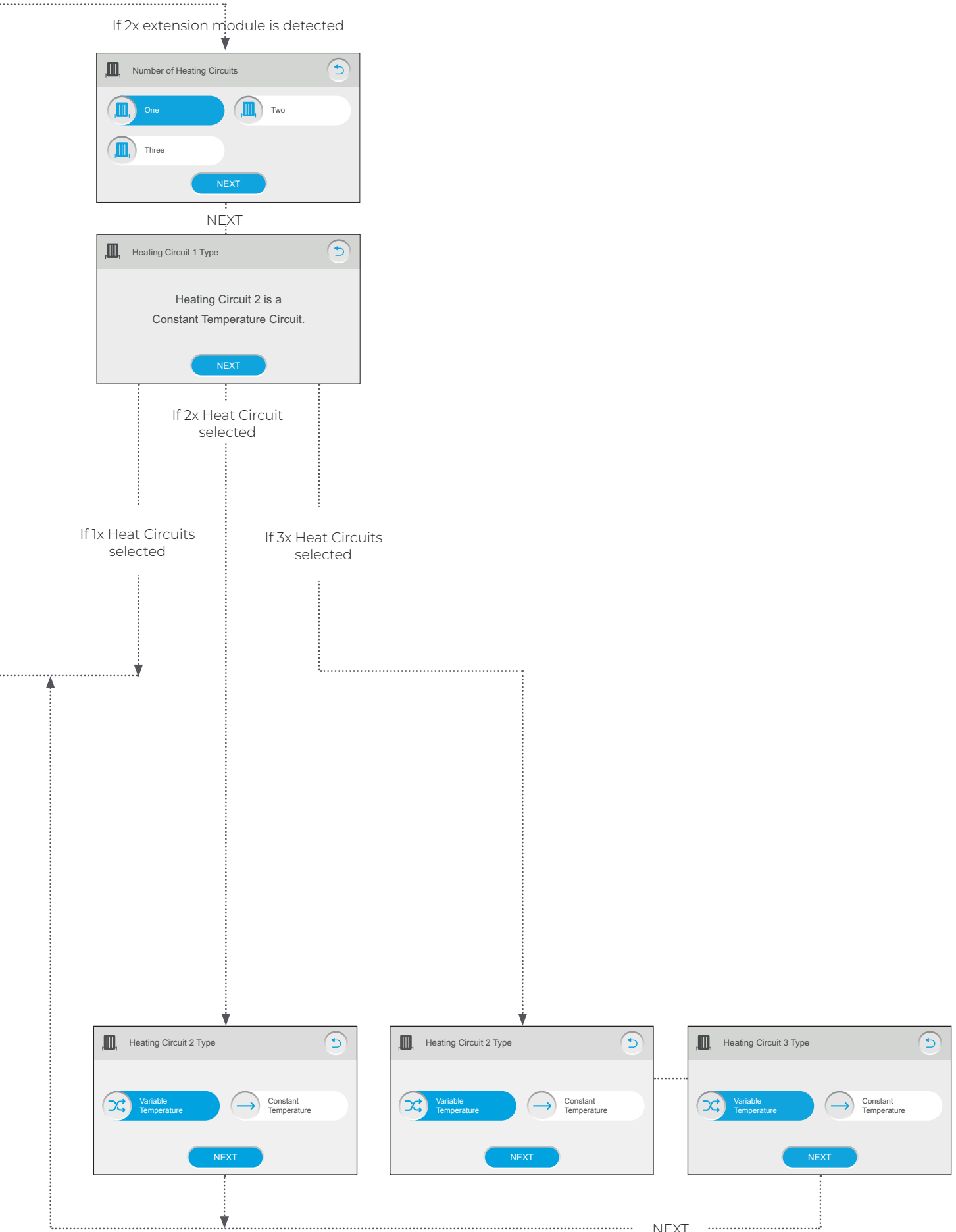
Modulation or On/Off Control

SECTION 1 - USER INTERFACE (CP)

1.6 USER INTERFACE INTERNAL BOILER CONTROL, HEATING CIRCUITS



SECTION 1 - USER INTERFACE (CP)

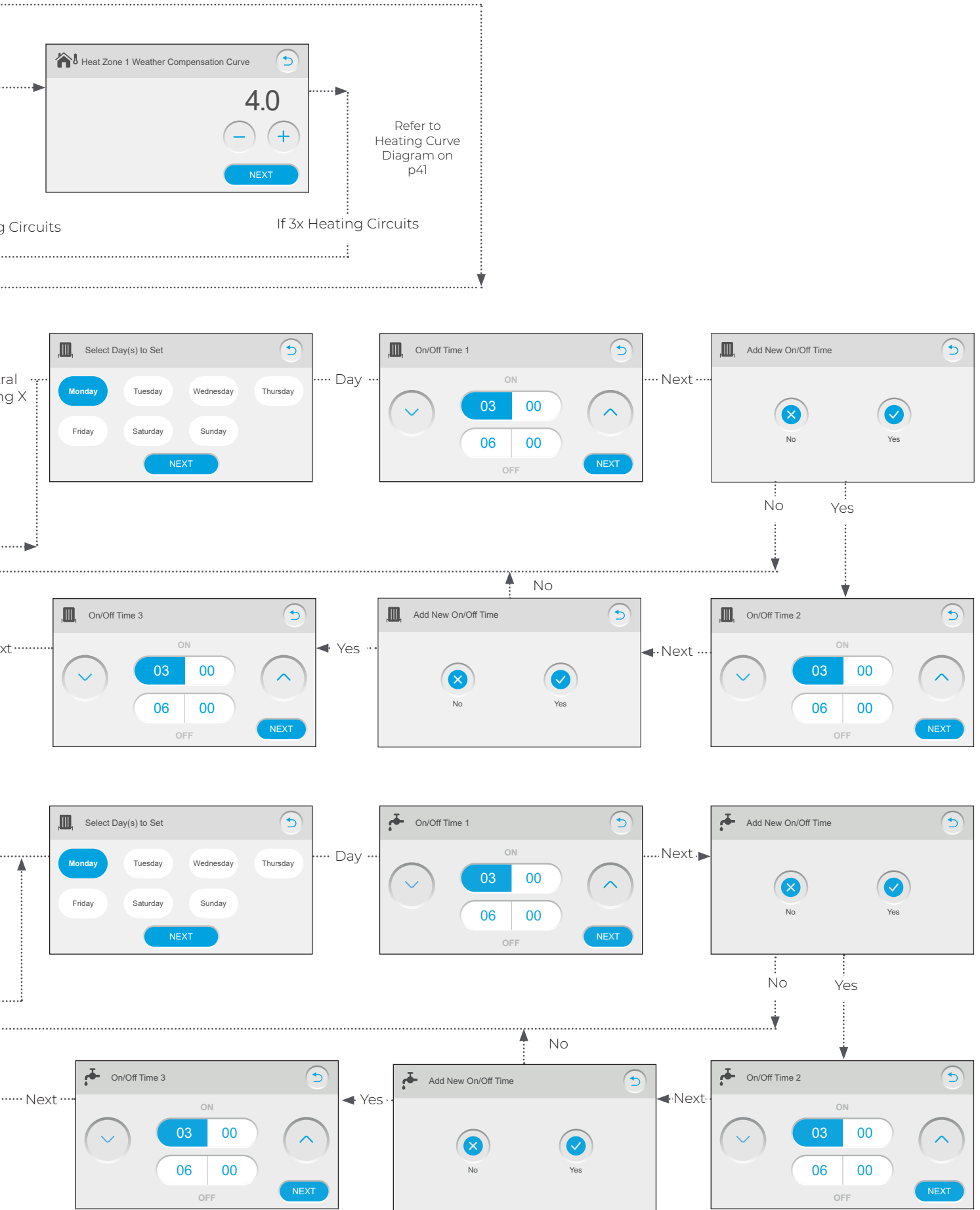


SECTION 1 - USER INTERFACE (CP)

1.7 USER INTERFACE INTERNAL BOILER CONTROL, OUTSIDE SENSOR, CH TIMES & DHW TIMES



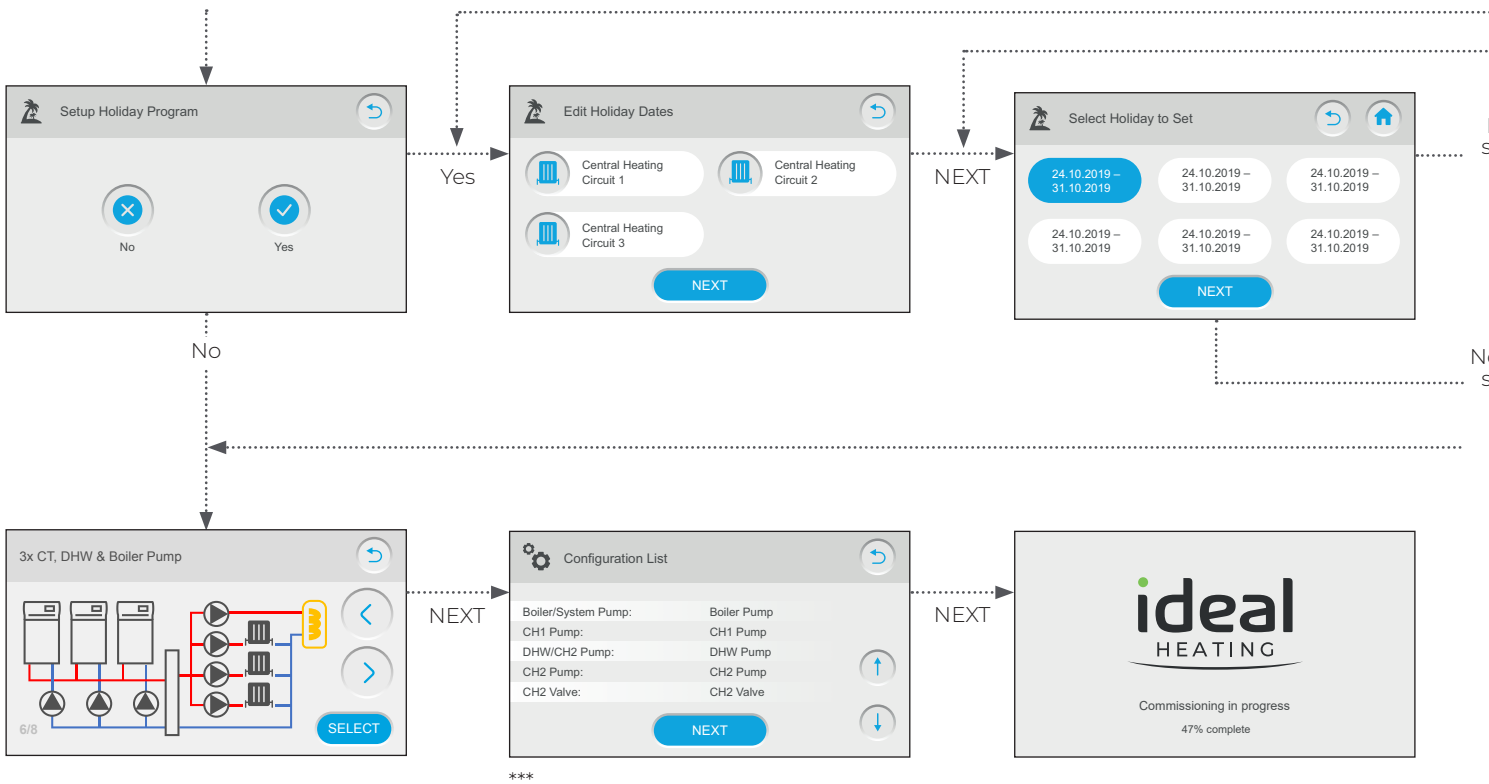
SECTION 1 - USER INTERFACE (CP)



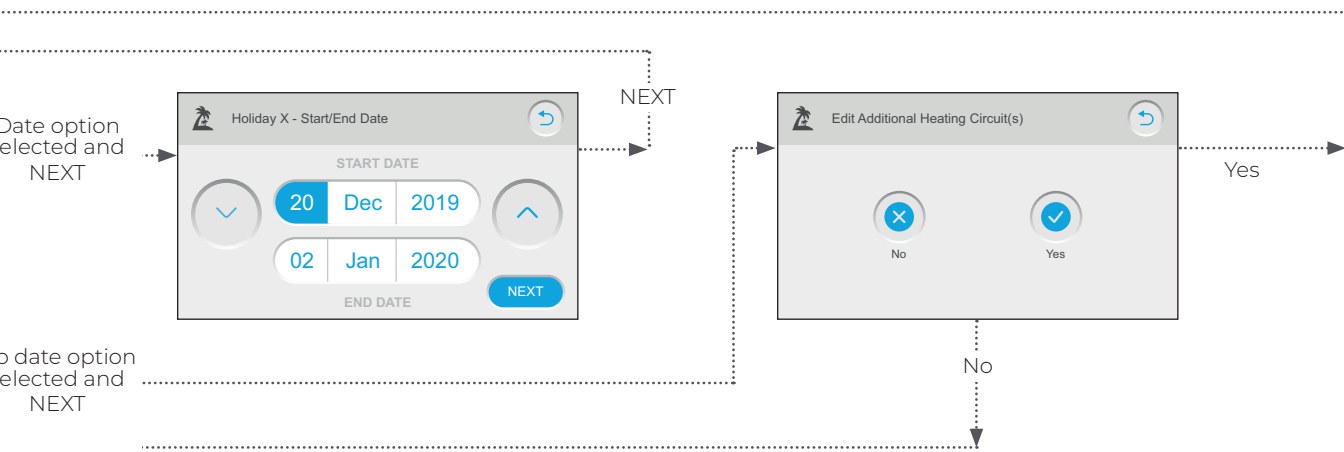
SECTION 1 - USER INTERFACE (CP)

1.8 USER INTERFACE INTERNAL BOILER CONTROL, HOLIDAYS & COMPLETION OF COMMISSIONING PROCESS

COMMISSIONING PROCESS



SECTION 1 - USER INTERFACE (CP)



SECTION 2 - USER INTERFACE (MO)

2 IMAX XTRA 2 USER INTERFACE MENU OPERATION

MENU OPERATION

If there is a fault then the English language description will be shown here

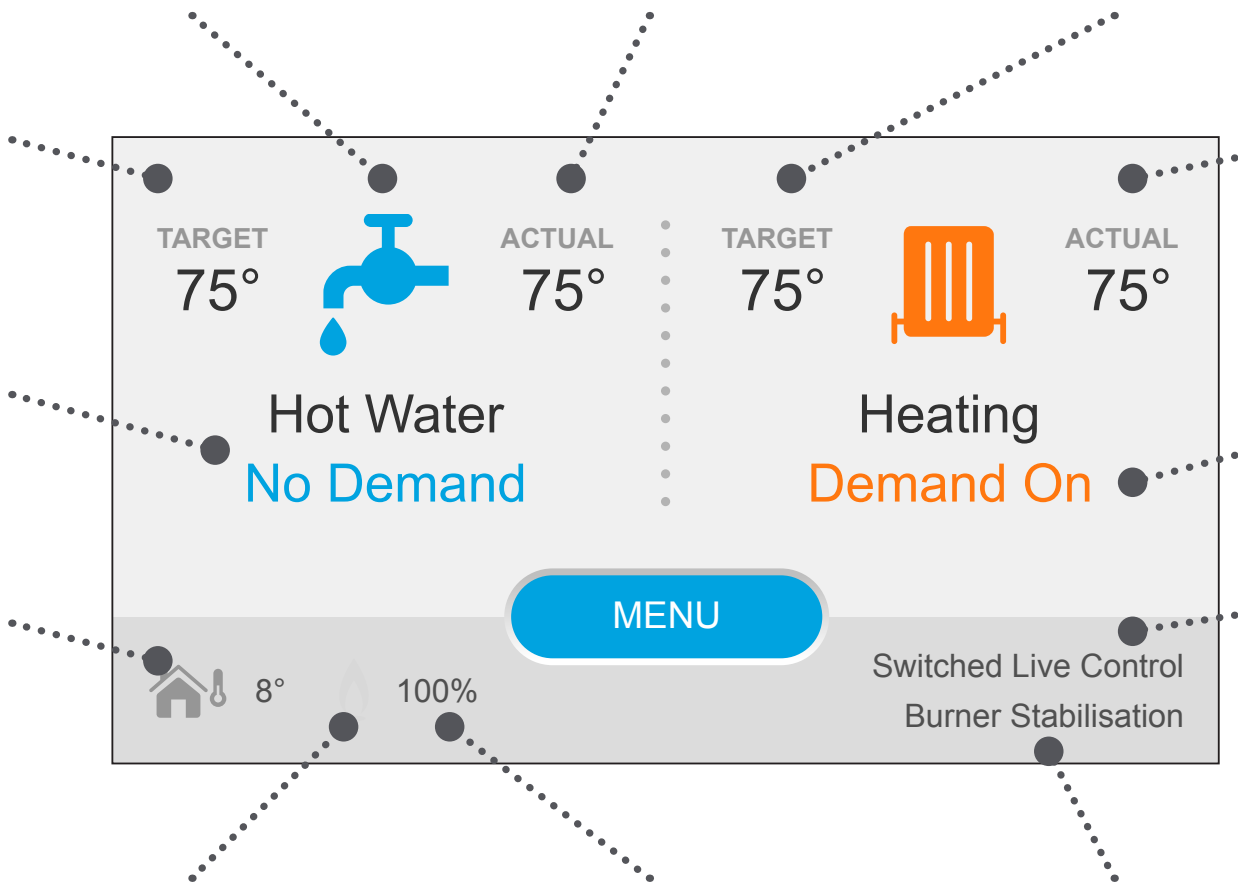
Actual hot water temperature is shown here

Target central heating flow temperature shown here

Target hot water temperature is shown here

The current status of hot water operation is shown here

If an outside sensor is connected then the outside temperature is shown here



Whether the burner is lit is shown here

If the burner is lit then the modulation level is shown here

The current operating state of the boiler is shown here (Standby or Pre-Purge or Ignition or Burner On or Post-Purge or Pump Overrun)

SECTION 2 - USER INTERFACE (MO)

ng
is

.....
Actual central heating flow temperature is shown here

Note CH boost function is not presently available and adjustments to that setting will not have any effect the operation of the boiler.

.....
The current status of central heating operation is shown here

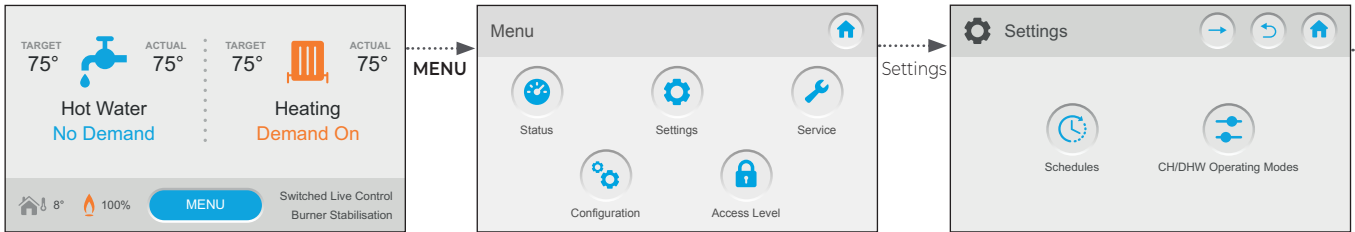
.....
The method of boiler control is shown here (Switched Live or 0-10V or Opentherm or Internal Boiler Control)

ng
is
by
tion
np

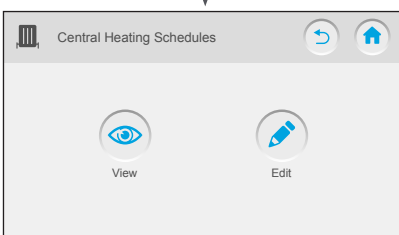
SECTION 2 - USER INTERFACE (MO)

2.1 USER INTERFACE MENU OPERATION: CENTRAL HEATING SCHEDULES

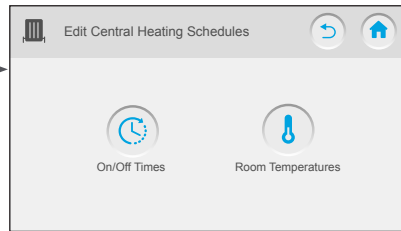
TO VIEW A CENTRAL HEATING SCHEDULE OR CHANGE A ROOM TEMPERATURE SETPOINT OR CHANGE CENTRAL HEATING ON/OFF TIMES PROCEED AS FOLLOWS



Central Heating



Edit

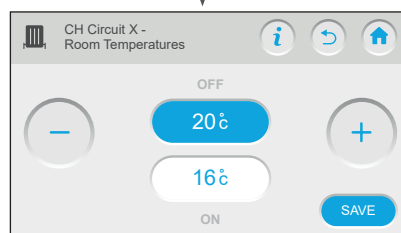


On/Off Times

View

Day	06:00 - 08:00	12:00 - 13:00	16:00 - 22:00
Monday	06:00 - 08:00	12:00 - 13:00	16:00 - 22:00
Tuesday	06:00 - 08:00	12:00 - 13:00	16:00 - 22:00
Wednesday	06:00 - 08:00	12:00 - 13:00	16:00 - 22:00
Thursday	06:00 - 08:00	12:00 - 13:00	16:00 - 22:00
Friday	06:00 - 08:00	12:00 - 13:00	16:00 - 22:00
Saturday	06:00 - 08:00	12:00 - 13:00	16:00 - 22:00
Sunday	06:00 - 08:00	12:00 - 13:00	16:00 - 22:00

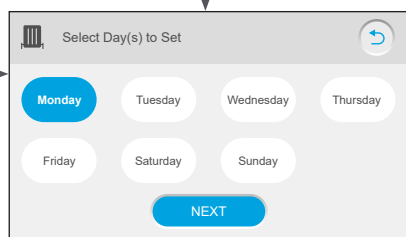
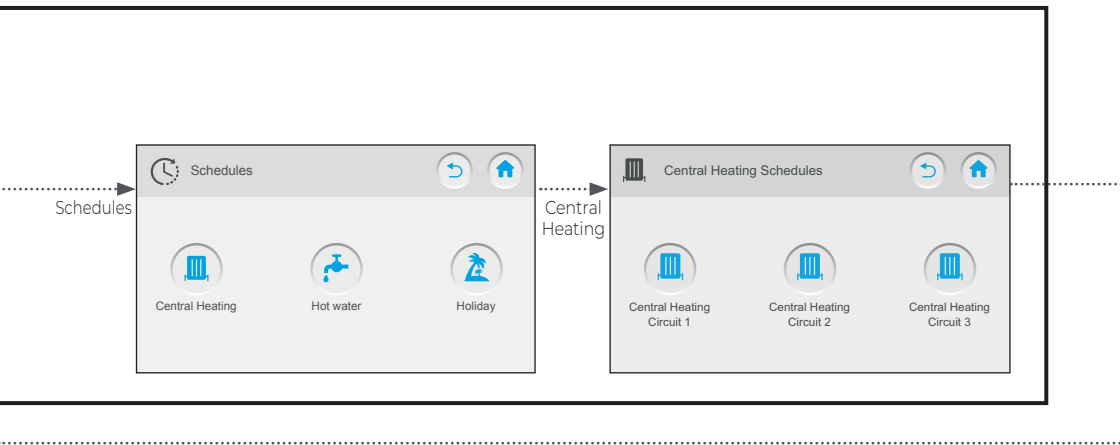
Room Temperature



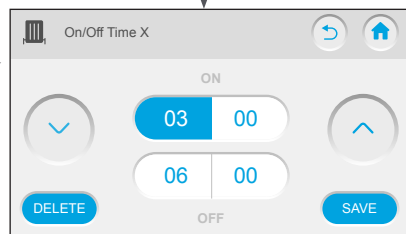
The ON temperature is the room temperature that will be achieved during an on period, the OFF temperature is the room temperature that will be achieved during an Off period

MENU OPERATION

SECTION 2 - USER INTERFACE (MO)



NEXT



SAVE

If there is time left in the day up to two additional on/off timer blocks can be added

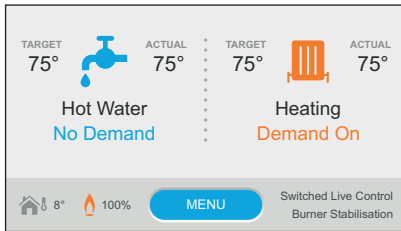
If additional timer blocks available

If **no** additional timer blocks available

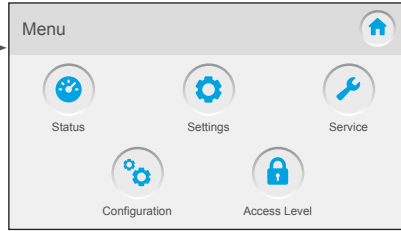
SECTION 2 - USER INTERFACE (MO)

2.2 USER INTERFACE MENU OPERATION: HOT WATER SCHEDULE

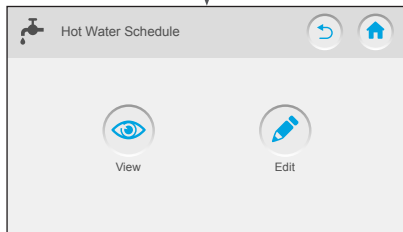
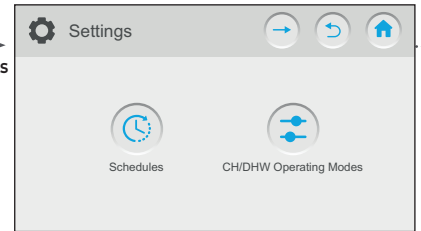
TO VIEW A HOT WATER SCHEDULE OR CHANGE THE HOT WATER TEMPERATURE SETPOINT OR CHANGE THE HOT WATER ON/OFF TIMES PROCEED AS FOLLOWS



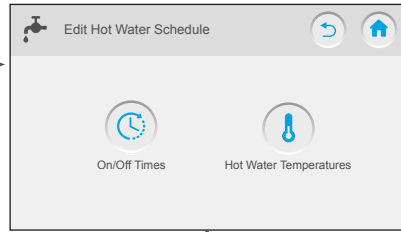
MENU



Settings



Edit

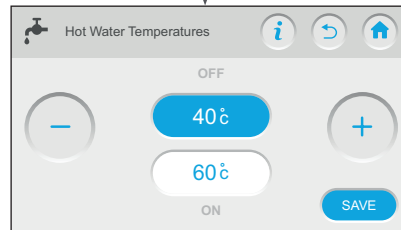


Press On/Off Times

View

Day	06:00 - 08:00	12:00 - 13:00	16:00 - 22:00
Monday	06:00 - 08:00	12:00 - 13:00	16:00 - 22:00
Tuesday	06:00 - 08:00	12:00 - 13:00	16:00 - 22:00
Wednesday	06:00 - 08:00	12:00 - 13:00	16:00 - 22:00
Thursday	06:00 - 08:00	12:00 - 13:00	16:00 - 22:00
Friday	06:00 - 08:00	12:00 - 13:00	16:00 - 22:00
Saturday	06:00 - 08:00	12:00 - 13:00	16:00 - 22:00
Sunday	06:00 - 08:00	12:00 - 13:00	16:00 - 22:00

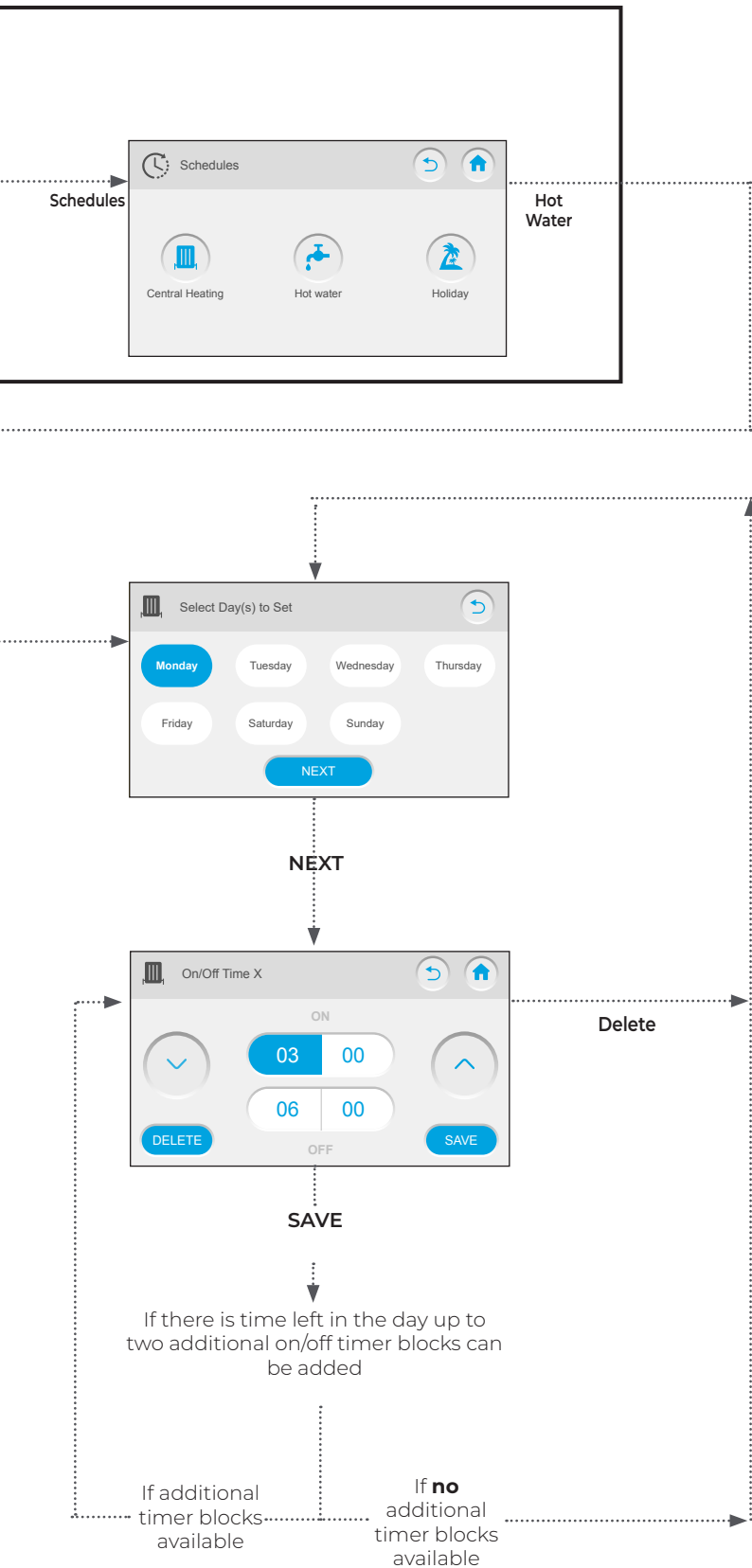
Hot Water Temperatures



The ON temperature is the Hot Water temperature that will be achieved during an on period, the OFF temperature is the Hot Water temperature that will be achieved during an Off period

MENU OPERATION

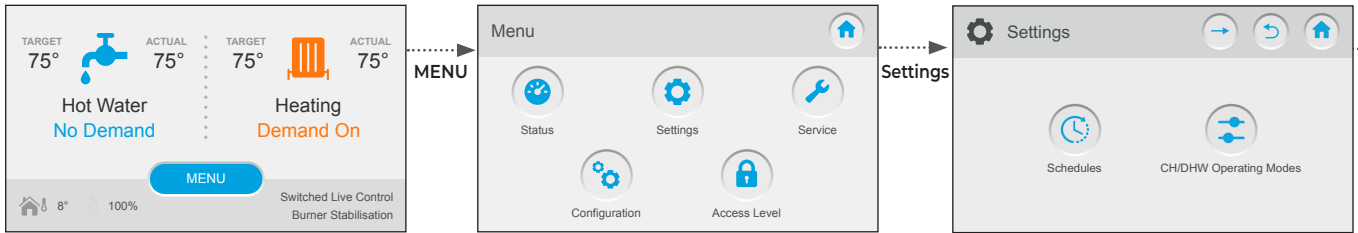
SECTION 2 - USER INTERFACE (MO)



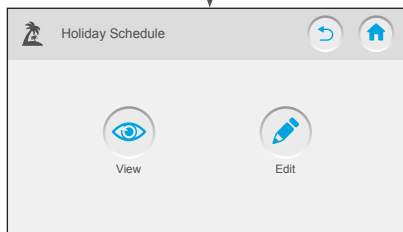
SECTION 2 - USER INTERFACE (MO)

2.3 USER INTERFACE MENU OPERATION: HOLIDAY

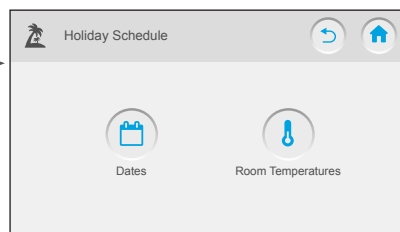
TO VIEW A HOLIDAY SCHEDULE OR CHANGE A HOLIDAY SCHEDULE ROOM TEMPERATURE OR CHANGE HOLIDAY SCHEDULE ON/OFF DATES PROCEED AS FOLLOWS



Central Heating X

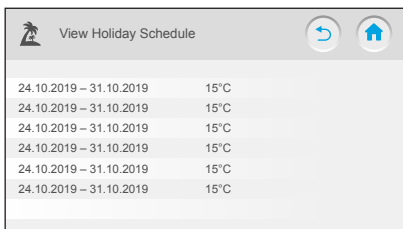


Edit

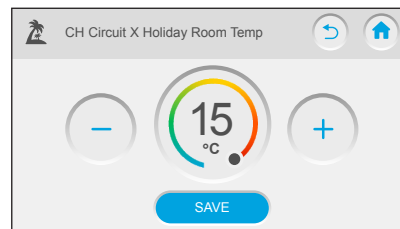


Dates

View



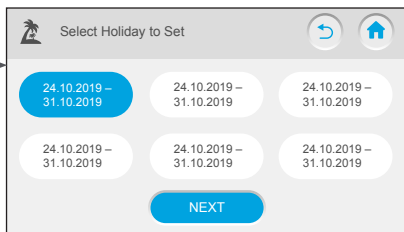
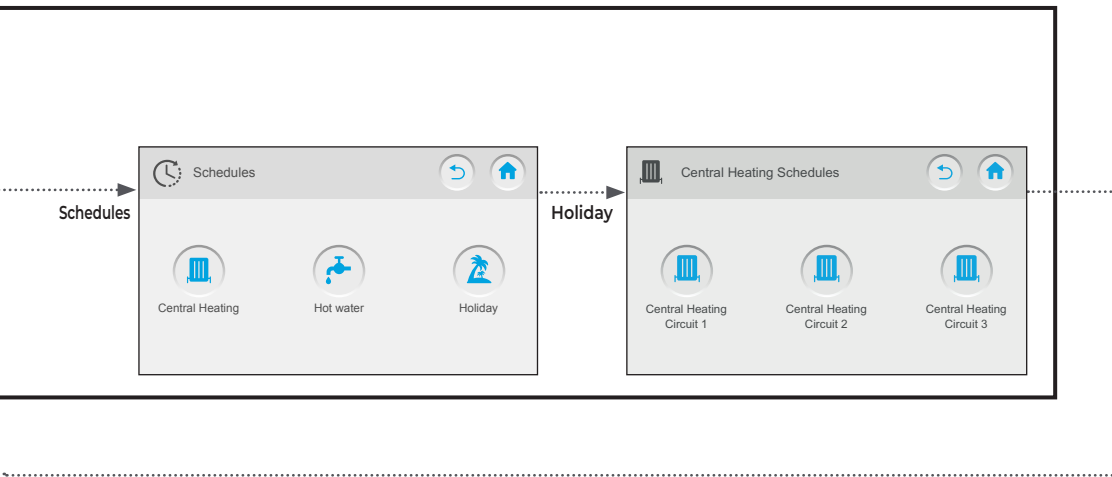
Room Temperatures



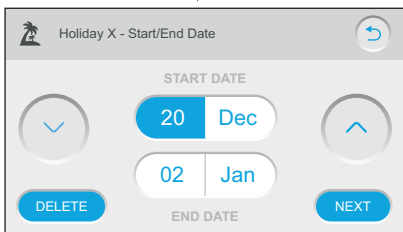
NOTE: Range of holiday temperature adjustment is from 4°C up to room OFF temperature.

MENU OPERATION

SECTION 2 - USER INTERFACE (MO)



NEXT



NEXT or DELETE

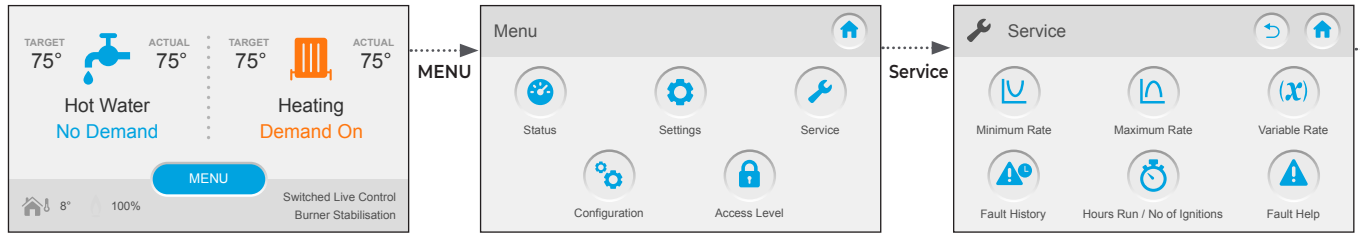
If NEXT is selected then the holiday is saved and the date block will be occupied, by the date range just selected, in the Select Holiday to Set page.

If DELETE is selected then the holiday is not saved and the date block in the Select Holiday to Set page will remain as "Date not set"

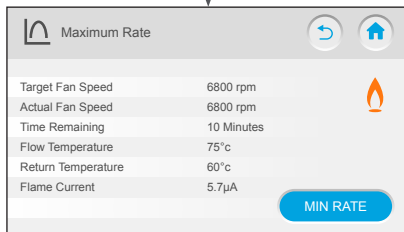
SECTION 2 - USER INTERFACE (MO)

2.4 USER INTERFACE MENU OPERATION: MAXIMUM RATE, MINIMUM RATE AND VARIABLE RATE

TO SET THE BOILER TO RUN AT MAXIMUM RATE OR MINIMUM RATE OR VARIABLE RATE FOR 10 MINUTES PROCEED AS FOLLOWS



To set the boiler to run at Maximum Rate for 10 minutes press **Maximum Rate**

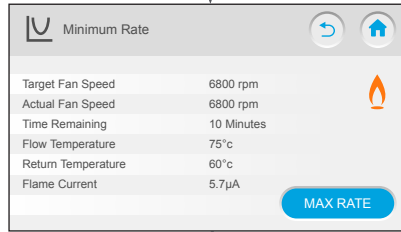


The boiler will run at Maximum Rate for 10 minutes unless the system load is insufficient

The boiler will automatically move back to normal operation after 10 minutes

To move directly to Minimum Rate press **MIN RATE**

To set the boiler to run at Minimum Rate for 10 minutes press **Minimum Rate**

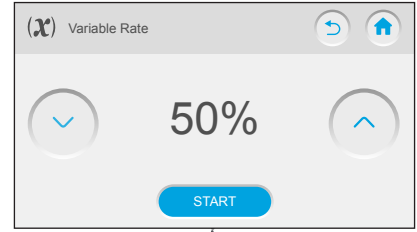


The boiler will run at Minimum Rate for 10 minutes unless the system load is insufficient

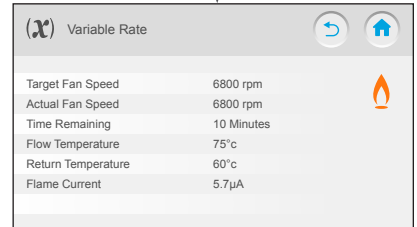
The boiler will automatically move back to normal operation after 10 minutes

To move directly to Maximum Rate press **MAX RATE**

To set the boiler to run at Variable Rate for 10 minutes press **Variable Rate**



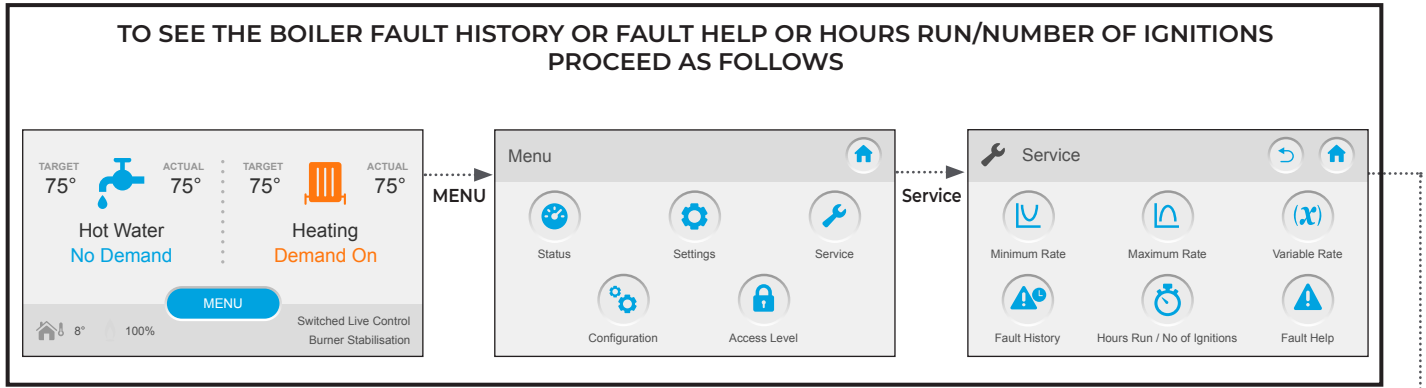
Press up and down until the required gas rate is shown then press **START**



The boiler will run at Variable Rate for 10 minutes unless the system load is insufficient. The boiler will automatically move back to normal operation after 10 minutes

SECTION 2 - USER INTERFACE (MO)

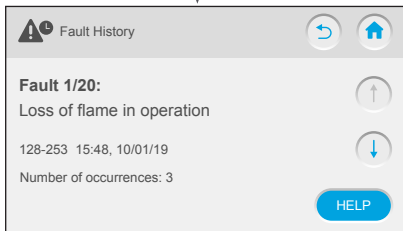
2.5 USER INTERFACE MENU OPERATION: FAULT HISTORY, FAULT HELP, HOURS RUN AND NUMBER OF IGNITIONS



To see the boiler Fault History press **Fault History**

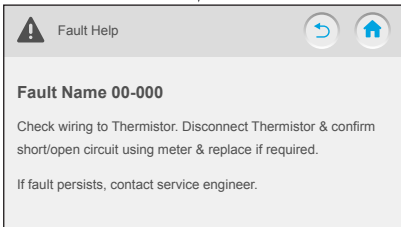
Fault Help option not currently available

To see Hours Run and Number of Ignitions press **Hours Run/No of Ignitions**



Press **up** and down to see the Next or Previous faults

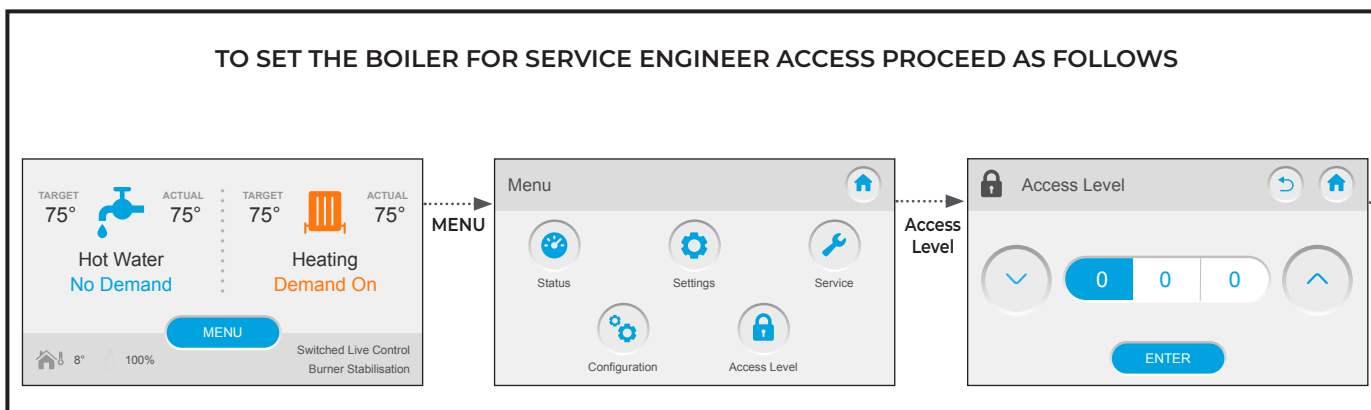
Press **HELP** to see Fault Help for this fault



FAULT HELP PAGE ONLY AVAILABLE WHEN FAULT HAS OCCURRED

SECTION 2 - USER INTERFACE (MO)

2.6 USER INTERFACE MENU OPERATION: SERVICE ACCESS



Press **up** and **down** until the first digit is set to 4

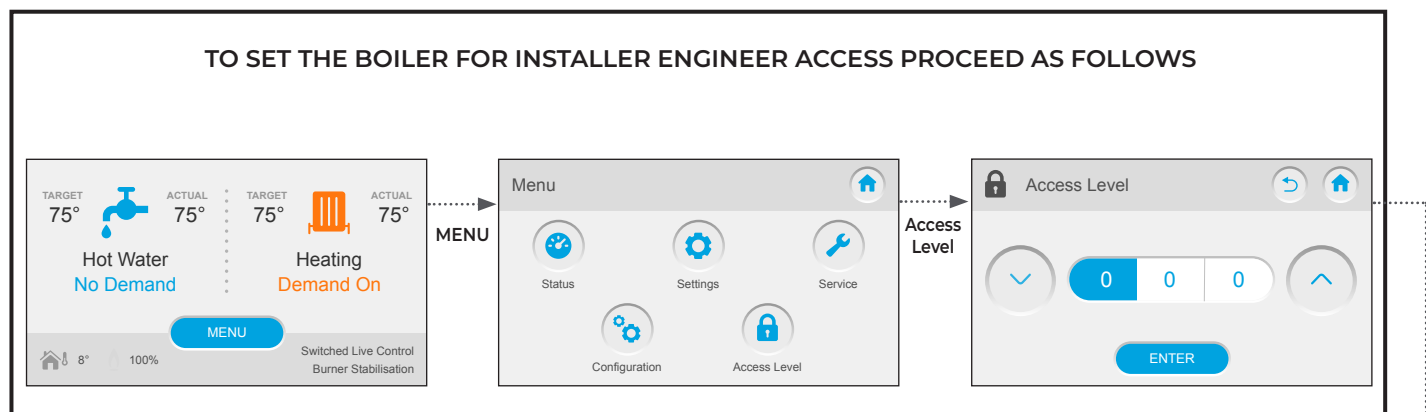
Press on the second digit and then press **up** and **down** until it is set to 5

Press on the third digit and then press **up** and **down** until it is set to 6

Press **DONE**

SECTION 2 - USER INTERFACE (MO)

2.7 USER INTERFACE MENU OPERATION: INSTALLER ACCESS



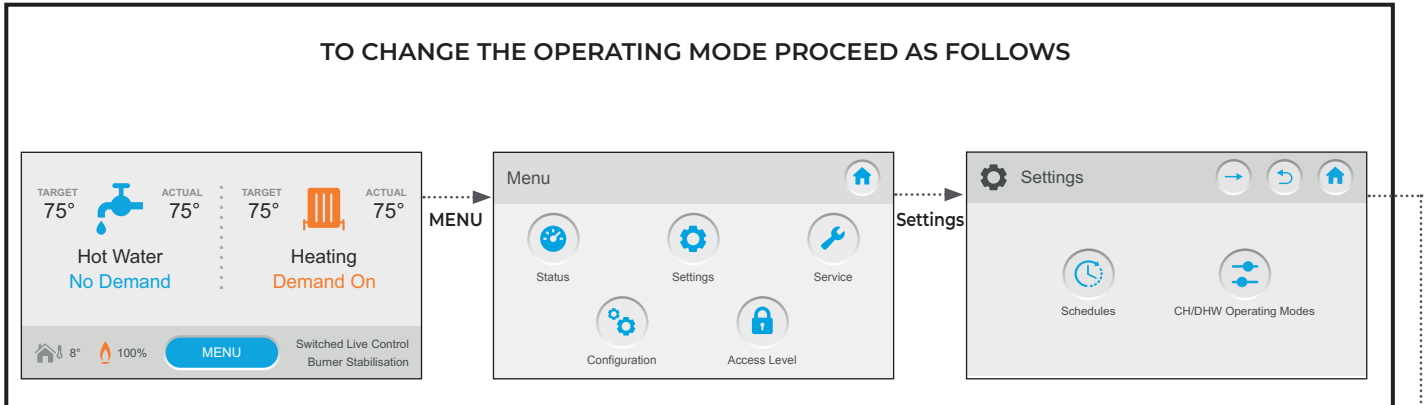
- Press **up** and **down** until the first digit is set to 5
- Press on the second digit and then press **up** and **down** until it is set to 2
- Press on the third digit and then press **up** and **down** until it is set to 9
- Press **DONE**

SECTION 2 - USER INTERFACE (MO)

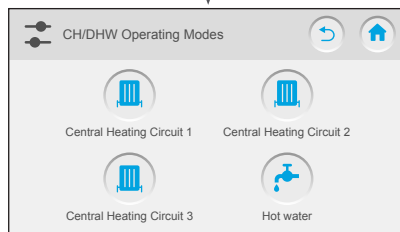
2.8 USER INTERFACE MENU OPERATION: OPERATING MODE

It will only be possible to change the Operating Mode of circuits that have been configured (there may only be 1 Central Heating Circuit)

TO CHANGE THE OPERATING MODE PROCEED AS FOLLOWS



CH/DHW Modes

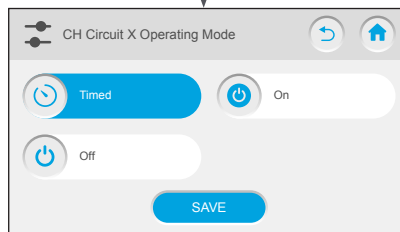


To change Central Heating Circuit 1 Operating Mode press **Central Heating Circuit 1**

To change Central Heating Circuit 2 Operating Mode press **Central Heating Circuit 2**

To change Central Heating Circuit 3 Operating Mode press **Central Heating Circuit 3**

To change Hot Water Operating Mode press **Hot Water**



Timed will switch the circuit on and off at the set programmed hours.

On sets the circuit to be continuously on.

Off sets the circuit to be continuously off.

To set the circuit to Timed operation press **Timed** and then **SAVE**

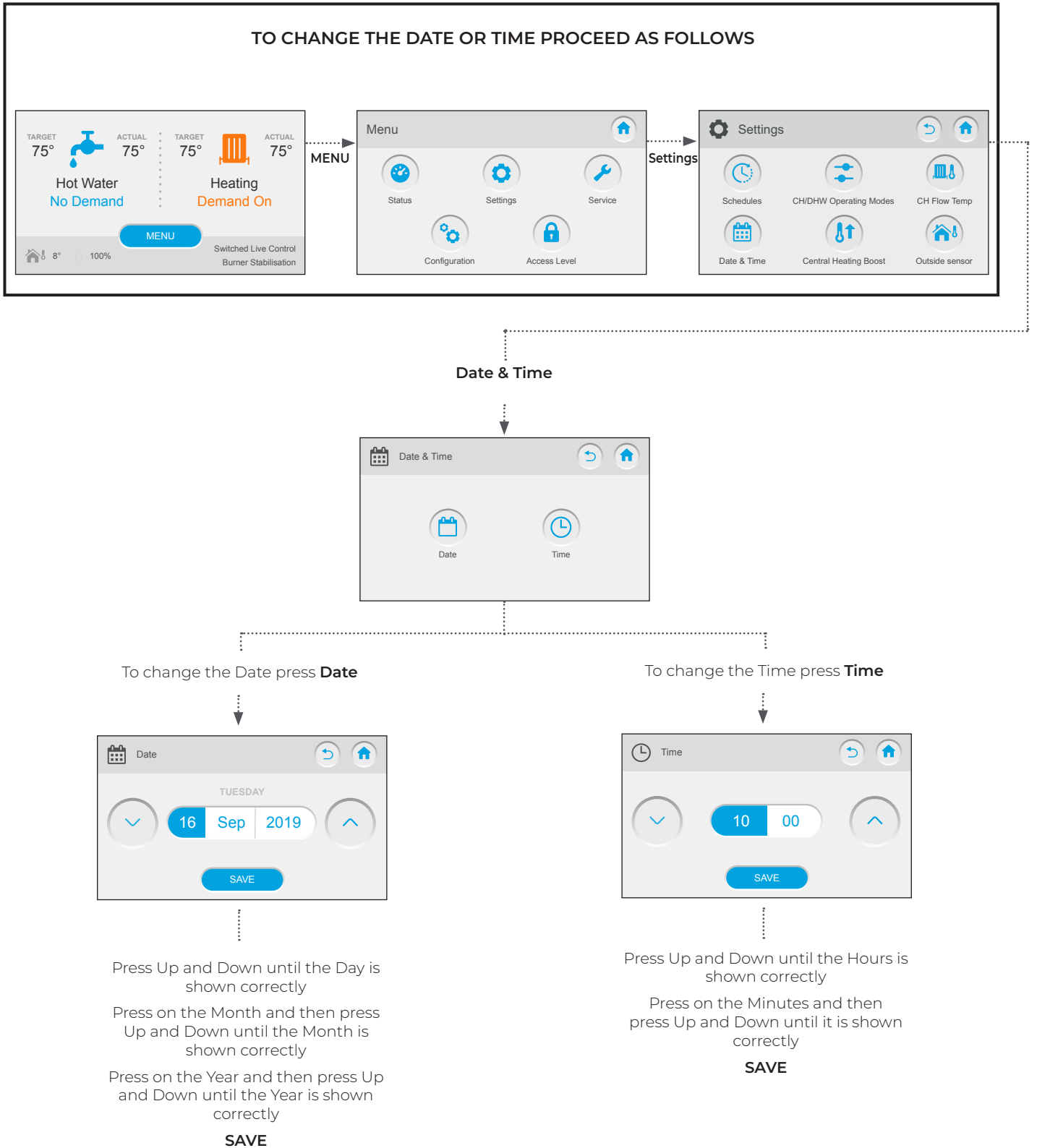
To set the circuit to On press **On** and then **SAVE**

To set the circuit to Off press **Off** and then **SAVE**

SECTION 2 - USER INTERFACE (MO)

2.9 USER INTERFACE MENU OPERATION: DATE AND TIME AND LANGUAGE

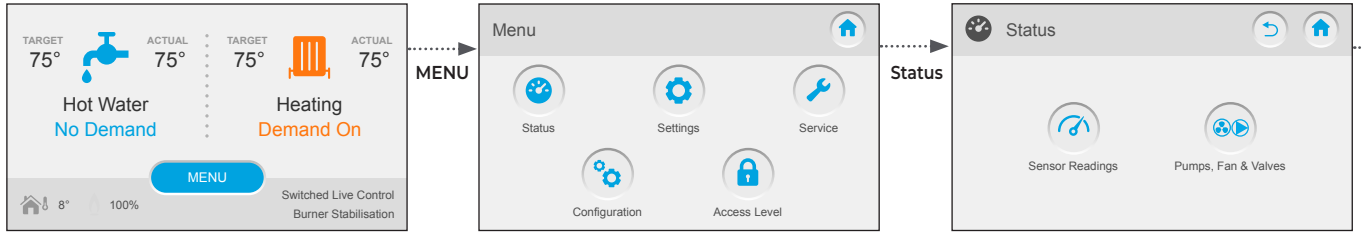
Note that to change the Date and/or Time the boiler will first need to be set for either Service Engineer Access Level or Installer Access Level



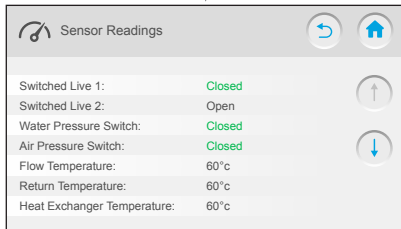
SECTION 2 - USER INTERFACE (MO)

2.10 USER INTERFACE MENU OPERATION: SENSORS, PUMPS, FAN & VALVES

TO SEE CURRENT SENSOR, PUMP, FAN & VALVE STATUS PROCEED AS FOLLOWS

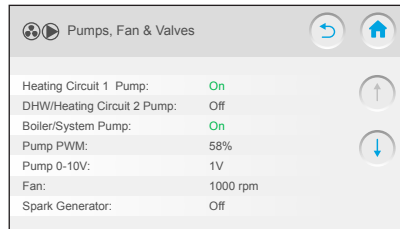


To view sensor readings press
Sensor Readings



To scroll up and down the list
press **Up** and **Down**

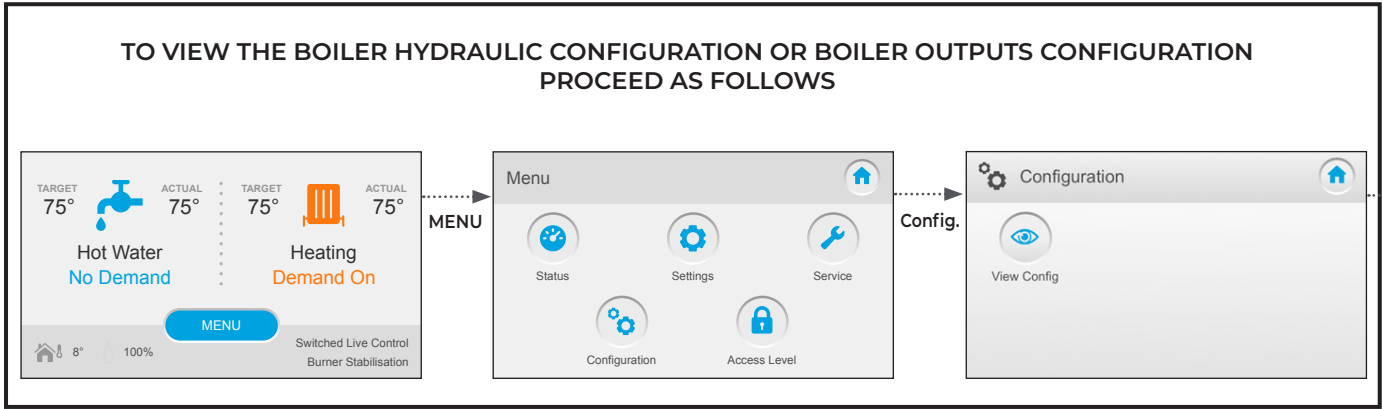
To view the status of the Pumps, Fan
& Valves press **Pumps, Fan & Valves**



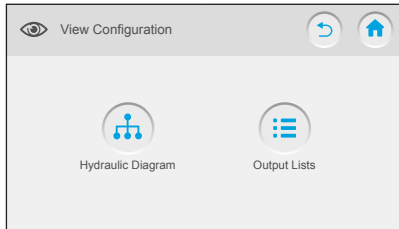
To scroll up and down the list
press **Up** and **Down**

SECTION 2 - USER INTERFACE (MO)

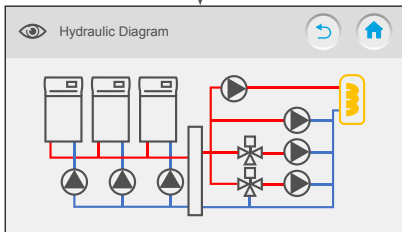
2.11 USER INTERFACE MENU OPERATION: VIEW CONFIGURATION



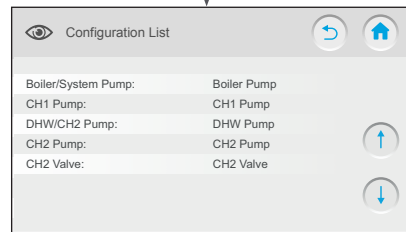
View Configuration



To view the boiler hydraulic configuration press **Hydraulic Diagram**



To view the boiler outputs configuration press **Outputs List**



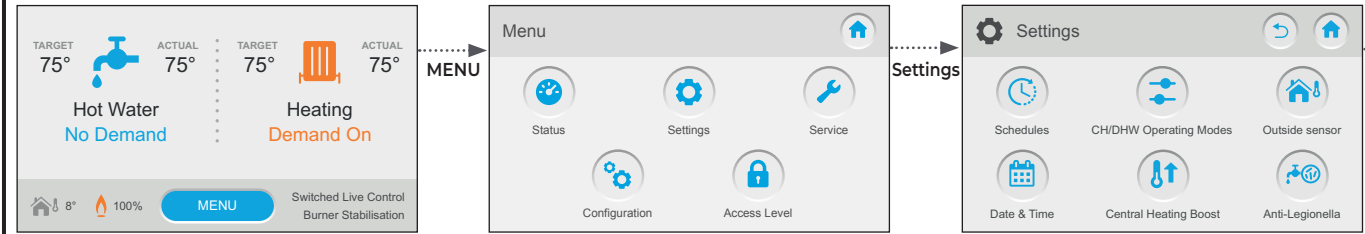
SECTION 2 - USER INTERFACE (MO)

2.12 USER INTERFACE MENU OPERATION: ANTI-LEGIONELLA

Note that to change the Anti-legionella settings the boiler will first need to be set for either Service Engineer Access Level or Installer Access Level.

Anti-Legionella settings are only applicable if a DHW circuit has been configured with a DHW Sensor.

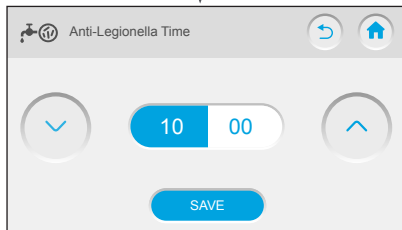
TO ENABLE/DISABLE/CHANGE ANTI-LEGIONELLA TEMPERATURE, DURATION, FUNCTION AND TIME PROCEED AS FOLLOWS



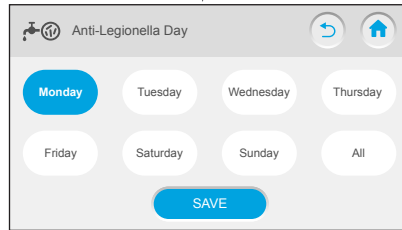
Anti-legionella **Time**

Anti-legionella **Day**

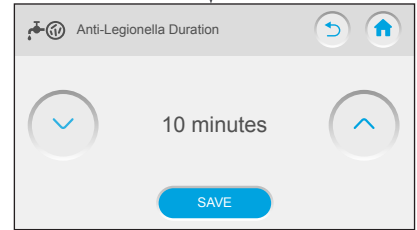
Anti-legionella **Duration**



To change the time at which the anti-legionella functions runs press the hour/minutes figure and use the down/up buttons then press **SAVE**



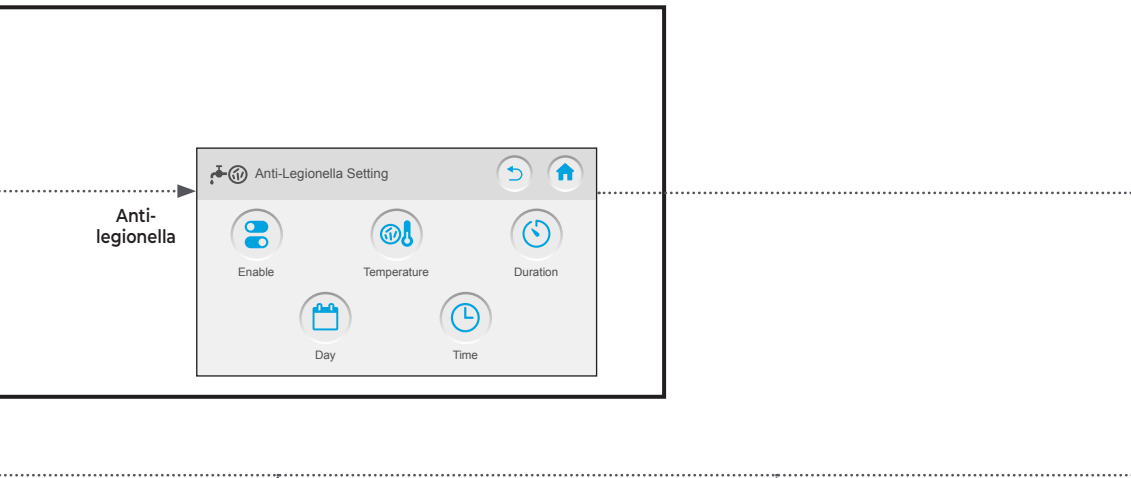
To change the day on which the anti-legionella functions runs select the day then press **SAVE**



To adjust the anti-legionella timer use the down/up buttons then press **SAVE**

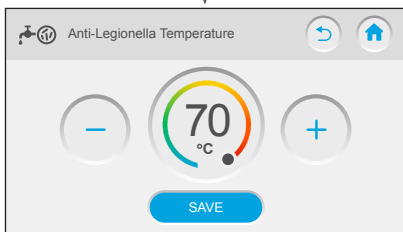
MENU OPERATION

SECTION 2 - USER INTERFACE (MO)

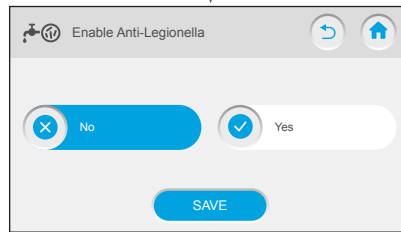


Anti-legionella **Temperature**

Anti-legionella **Enable**



To adjust the anti-legionella temperature use the -/+ buttons then press **SAVE**



To Disable the Anti-Legionella press **No** and then **SAVE**

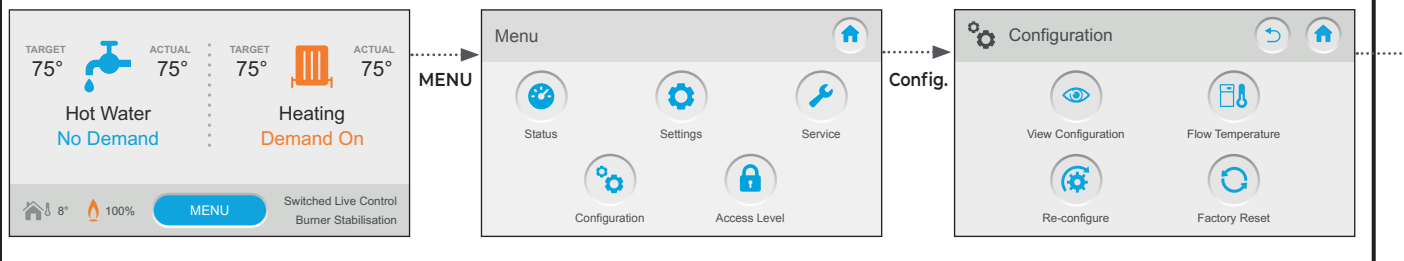
To Enable the Anti-Legionella press **Yes** and then **SAVE**

SECTION 2 - USER INTERFACE (MO)

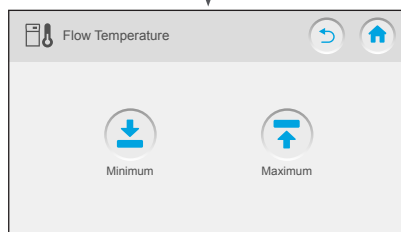
2.13 USER INTERFACE MENU OPERATION: MAXIMUM AND MINIMUM FLOW TEMPERATURE

Note that to change the Maximum or Minimum Flow Temperature the boiler will first need to be set for Installer Access Level

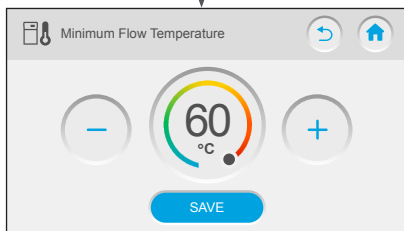
TO CHANGE THE MINIMUM AND MAXIMUM FLOW TEMPERATURE SETPOINT PROCEED AS FOLLOWS



Flow Temperature

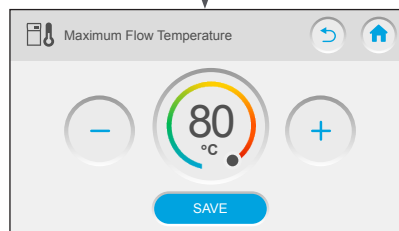


To change the Minimum Flow Temperature Setpoint press **Minimum**



Press + and - until the desired Minimum Flow Temperature Setpoint is shown and then press **SAVE**

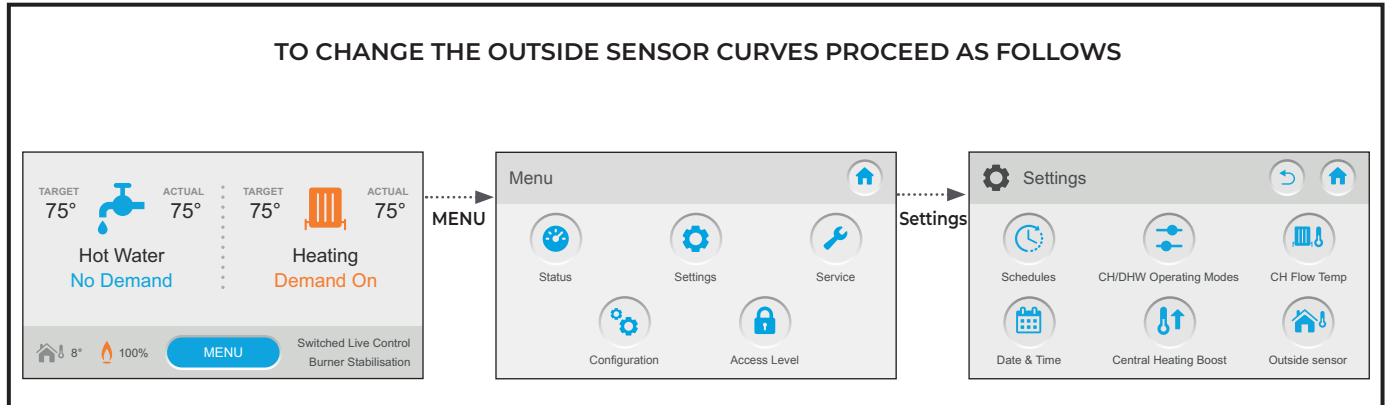
To change the Maximum Flow Temperature Setpoint press **Maximum**



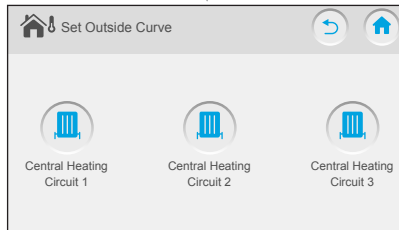
Press + and - until the desired Maximum Flow Temperature Setpoint is shown and then press **SAVE**

SECTION 2 - USER INTERFACE (MO)

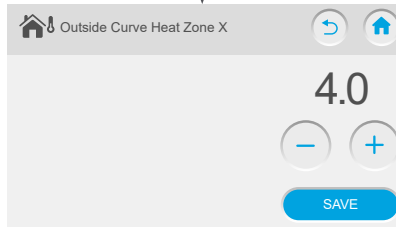
2.14 USER INTERFACE INTERNAL BOILER CONTROL, OUTSIDE SENSOR CURVES



Outside Sensor



Central Heating X

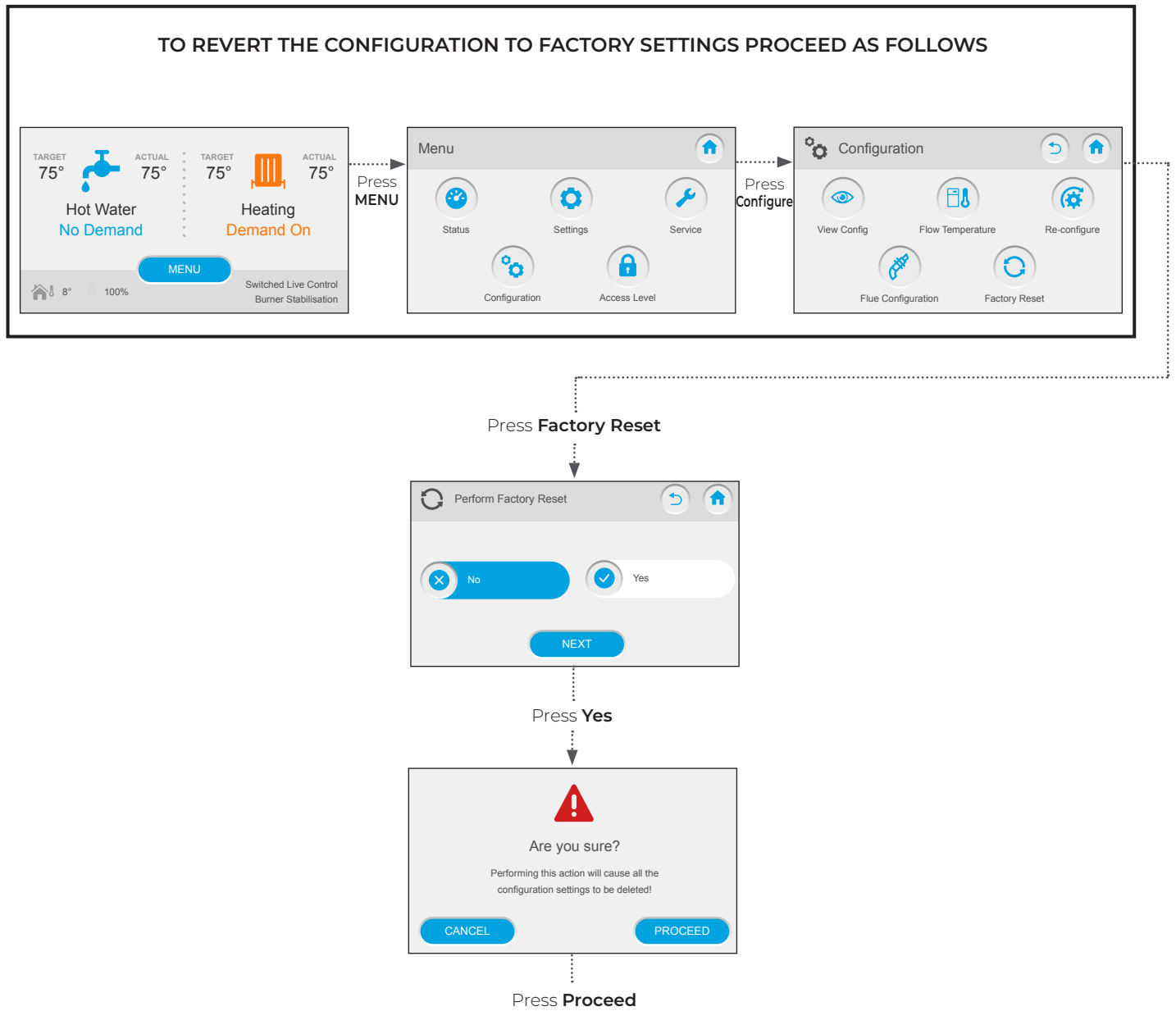


Refer to Heating Curve Diagram on p41

SECTION 2 - USER INTERFACE (MO)

2.15 USER INTERFACE MENU OPERATION: FACTORY RESET

Note that to perform a Factory Reset the boiler will first need to be set for Installer Access Level

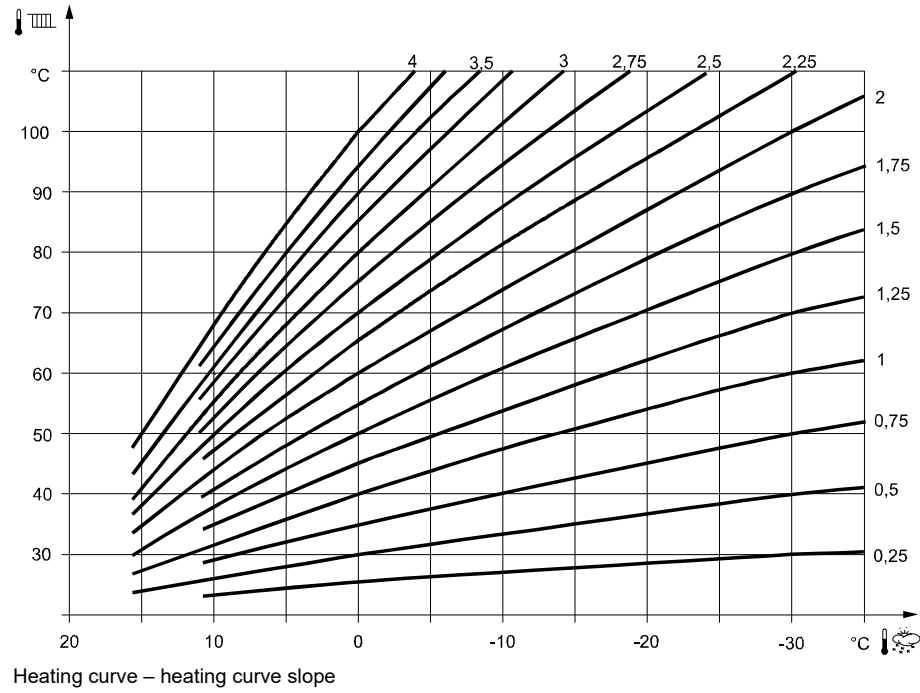


MENU OPERATION

2.16 HEATING CURVE DIAGRAM

The boiler flow temperature setpoint is calculated using the graph shown.

The flow temperature will be varied between 30°C and 80°C.





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