



inlineHot

WATER SYSTEM

Control Panel User Guide

Logicor (CH) Ltd.

Version: ILHWS-EN-06-07-2016



Language : English



TABLE OF CONTENTS

SAFETY (PART 1 OF 2)	IV
• Installation	iv
• Safety & Maintenance	iv
SAFETY (PART 2 OF 2)	V
• Safety & Maintenance (continued)	v
• Cleaning	v
INTRODUCTION	1
• Control Panel	2
• InLine Hot Water System	3
SECTION 1: HELP MODE	4
• Help Mode	5
SECTION 2: CONTROL PANEL & HEATER SETTINGS	6
• Control Panel & Heater Settings	7
• Main Settings	8
• Wifi Settings	9
• Time & Date	10

TABLE OF CONTENTS

• Tariff Settings	11
• Country Select	12
• Screen Options	13
• Status Screen Options: Choose a System	14
• Status Screen Options: Choose Readings	15
• Brightness Settings	16
• Recalibration	17
• Load Original Settings	18
• InLine Hot Water System Settings	19
• Adjust Complete System	20
• Adjust Zones	21
• Edit Zone Name & Temperature	22
• Add New Zone	23
• Assign Water Heater Units to Zone	24
• Delete Zone	25
• Adjust Water Heaters	26
• Add New Water Heater	27
• Add New Water Heater: Waiting	28
• Add New Water Heater: Confirmation	29

TABLE OF CONTENTS

• Edit Water Heater Name & Temperature	30
• Delete Water Heater Unit.....	31
SECTION 3: STATUS SCREEN.....	32
• Status Screen - Summary	33
• Status Screen - InLine Hot Water System	34
SECTION 4: COST & ENERGY SETTINGS	35
• Cost & Energy Settings	36
• Adjust Cost & Energy Settings	37
SPECIFICATION: CONTROL PANEL.....	38
SPECIFICATION: INLINE HOT WATER SYSTEM.....	39

Safety (part 1 of 2)

Installation

- **The InLine Hot Water System must be installed by a certified installer authorized by Logicor.**

Our installers have to pass strict qualification standards before they become approved to install our systems. Our installers will advise and install your InLine Hot Water System in the most suitable position.

- **WARNING - InLine Hot Water Systems must not be located immediately below a wall socket outlet.**

- **WARNING - Bathroom Installations.**

InLine Hot Water Systems and control panels located in a bathroom must be positioned so that switches and other controls cannot be touched by a person in the bath or shower.

Water heater units must not be installed at a height greater than 1.8m in a bathroom. Please follow electrical safety regulations applicable to your country in regards to installations in bathrooms.

- **WARNING - Do not install the InLine Hot Water System in a wardrobe or to a ceiling.**

Our installers will advise and install your InLine Hot Water System in the most effective position to heat the water your property needs safely and efficiently.

Safety & Maintenance

- **WARNING - InLine Hot Water System units must not be used if there is any visible damage to the outer case or the unit itself.**

InLine Hot Water Systems are robust and durable but please avoid impacts from sharp or heavy objects: a hammer for example. In the unlikely event that any of the front panels of your InLine Hot Water System units become damaged, switch the unit off from the electrical supply if it is safe to do so and contact Logicor (CH) Ltd.

- **CAUTION - Some parts of this product can become hot and cause burns. Particular attention has to be given where children or vulnerable people are present.**

InLine Hot Water Systems operate at a normal 48°C (118 °F).

The use of this product by young children under 8 years old or infirm persons without supervision is not recommended. Do not allow young children to play with the appliance.

- **WARNING - Do not dismantle; this appliance contains no user serviceable parts.**

In the unlikely event of you requiring service please contact your authorised distributor or Logicor by visiting www.logicor.co.uk.

Safety (part 2 of 2)

Safety & Maintenance (continued)

- **WARNING - If the power cord is damaged do not use the appliance.**

If the power cord is damaged it must be replaced by the manufacturer, its service agent or similar qualified persons to avoid a hazard.

- **WARNING - In order to avoid overheating, do not cover the heater.**

If you wish to dry clothes within the proximity of the Inline Hot Water System please purchase a clothes dryer system from Logicor.

The Logicor clothes dryer system is designed to work with the Clear Heater System and provides a convenient, safe and quick method to dry clothes positioned a safe distance from the Clear Heater System. At no point must clothing be hung directly over an Inline Hot Water System or Clear Heater System.



WARNING: Do not cover.

Cleaning

- **IMPORTANT** - The InLine Hot Water System is designed to cope with normal household dust. The water heaters have several sensitive internal sensors; please avoid spraying polish, hair sprays or other chemical sprays near the InLine Hot Water System units as it may reduce or damage the performance and can be dangerous. Use only a clean dry cloth to clean the InLine Hot Water System and control panel but avoid polish, sprays or harsh abrasives.
- **All Logicor ILHWS are fitted with a sacrificial anode to increase the life expectancy of the unit.**

As with any boiler system, during normal operation you may find occasional harmless sediment deposits in the hot water system caused by the normal corrosion of the sacrificial anode. This process does not represent a risk or fault. If you notice a rapid depletion of the sacrificial anode you will need to call a qualified ILHWS engineer. Before you call an engineer check to see if you have a salt based water softener fitted on the incoming supply to the ILHWS. Softened water will cause the anode to deplete more rapidly than hard water and you may need to change the type of water softener that you use.

MENU ► *Tip! Use the menu path headings at the top of each page to help you navigate through the screens*

Introduction

Energy efficiency has never been more important, especially where cost is concerned. InLine Hot Water System units are very efficient themselves and when combined with our smart touch-screen control panel you will benefit from better, more accessible information and control over your complete water heating costs.

Some options are only available if you have both a Clear Heater System and an InLine Hot Water System installed.



Section 1:

Help Mode (Page 4)



Section 2:

Control Panel & Heater Settings (Page 6)



Section 3:

Status Screen (Page 32)



Section 4:

Cost & Energy Settings (Page 35)



Section 5:

Timer Settings (only available with CHS)

How to use this guide

This user guide is designed to help you get the most from your InLine Hot Water System and understand the different functions available on the control panel.

Your control panel has help messages associated with each function; simply press the help icon at any time.

Use the table of contents at the beginning of this guide to find the page number of the function you need help with and go to that page.

The nature of the control panel options means that you may need to back-track through the screen menus in order to fully understand how to reach your chosen function on the control panel.

Tip: Use the **MENU ► headings** at the top of each page to find the page number of each previous screen leading up to your chosen function.

If you are viewing a pdf copy of this guide you can click on any page number reference or **MENU ► heading** at the top of the page to go direct to that page.

Check out our website **www.logicor.co.uk** for product updates.

MENU ► *Tip! Use the menu path headings at the top of each page to help you navigate through the screens*

Control Panel

The control panel is the 'brain' of Logicor's heating system and is compatible with both the Clear Heater System (CHS) and the InLine Hot Water System (ILHWS).

Once the control panel and heater units are plugged into the wall socket they are ready to communicate with each other using the electrical mains wiring in your home.



The control panel is also equipped with Wifi capability to receive software updates via the internet.

The control panel is pre-programmed to work out of the box but you can change the settings at any time with your own preferences.

For example, you can change the name and temperature of each water heater unit or assign water heater units to work in named zones (e.g. all bathrooms).

Use the touch screen LCD to select options or type in your data. The menu icons on the left of the display are your starting point for each of the following sections.



Section 1:

Help Mode (Page 4)



Section 2:

Control Panel & Heater Settings (Page 6)



Section 3:

Status Screen (Page 32)



Section 4:

Cost & Energy Settings (Page 35)



Section 5:

Timer Settings (only available with CHS)

MENU ► *Tip! Use the menu path headings at the top of each page to help you navigate through the screens*

InLine Hot Water System

Our new InLine Hot Water System (ILHWS) is powered by electricity and is designed to replace your existing water boiler and storage tank in your home. If you also have our Clear Heater System installed it will remove the need for gas in your home altogether.



Existing Clear Heater customers will be able to use their current smart control panel to monitor and change the settings of the new system.

Automatic software updates via Internet will allow the InLine Hot Water System to be added to an existing Control Panel unit. The InLine Hot Water System is Bluetooth enabled and also communicates via the electrical ring main in your home or office.

Water in different parts of the UK varies in the amount of dissolved mineral ions it contains. A water softener is supplied with all units and must be mandatorily fitted in all instances to maintain the performance of the system.

Safety features include an anti-scald valve, thermal cut out, multiple flow and temperature sensors all controlled from a bespoke minicomputer.

Advantages:

- With our system you can select the amount of water you want to heat so you will never have an unexpected bill.
- Monitor precisely the number of litres of water you use in a day/week/month and keep track of the costs in real time.
- Flow rate is independent of selected water temperature. The system reacts quickly so the running of a kitchen tap will not affect the temperature of a bathroom shower.
- Our system is proactive and monitors its own performance. In the unlikely event of you needing to change a unit to service it will take less than 30 minutes.
- Our InLine Hot Water System is guaranteed for 20 years from the original date of installation.

Section 1: Help Mode

Select the Help Icon on your control panel display then turn to page 5.



Section 1:
Help Mode (Page 4)



Section 2:
Control Panel & Heater Settings (Page 6)



Section 3:
Status Screen (Page 32)

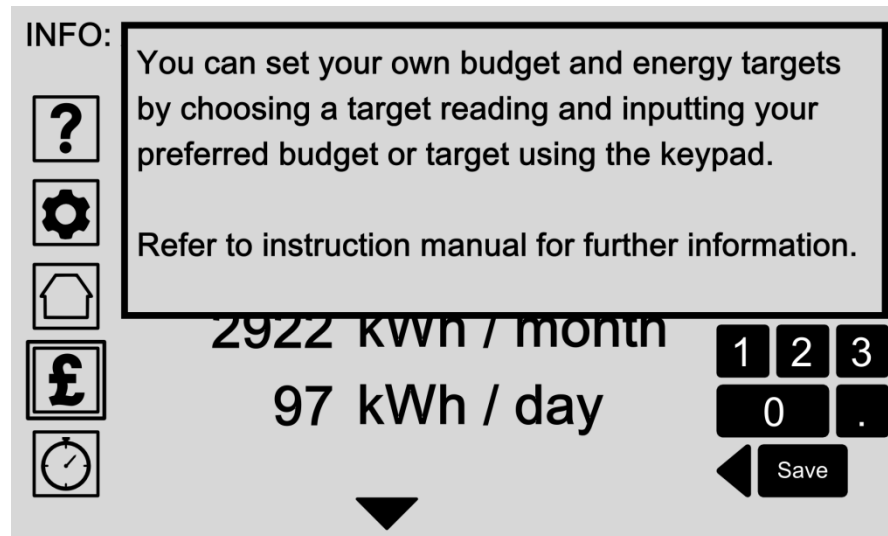


Section 4:
Cost & Energy Settings (Page 35)



Section 5:
Timer Settings (only available with CHS)

Help Mode



The help icon is always there at the top left of your screen to give you additional information about the current control panel display.

Pressing the screen again takes you back to your previous screen.

Options:

- **Press 'Help' Icon**
Touch the help icon at any time to enter help mode. The associated help message appears in the pop-up box.
- **'Exit' Help**
Press anywhere on the screen to take you back to your previous display.

Section 2: Control Panel & Heater Settings

Select the Temperature Icon on your control panel display then turn to page 7.



Section 1:
Help Mode (Page 4)



Section 2:
Control Panel & Heater Settings (Page 6)



Section 3:
Status Screen (Page 32)



Section 4:
Cost & Energy Settings (Page 35)



Section 5:
Timer Settings (only available with CHS)

Control Panel & Heater Settings

INFO: Select an option to adjust



1. Main settings



2. Load original settings



3. Clear Heater System



4. Clear Heater Clothes Dryer



5. InLine Hot Water System



Selecting the Settings Icon brings you to the main control panel and heater settings menu.

From here you can change the main settings of your control panel or load the original factory settings to reset the control panel completely and delete your saved preferences.

If you have a CHS installed you have additional settings to change that system.

All your hot water settings can be changed from the InLine Hot Water System option.

Options:

- **Main settings** (Page 8)
Adjust the main settings of the control panel, including Wifi, time and date, tariff settings, units of measurement and screen display options.
- **Load original settings** (Page 18)
Load the original factory settings if you want to reset the system back to its factory settings. You will be asked to confirm your choice on the next screen or cancel.
- **Clear Heater System**
Note: Only available with a CHS installation.
- **Clear Heater Clothes Dryer**
Note: Only available with a CHS installation.
- **InLine Hot Water System** (Page 19)
Adjust your water heating preferences for individual heater units or create water heater zones to adjust multiple heaters together.

Main Settings

INFO: Select an option to adjust



1. Wifi settings



2. Time & date



3. Tariff settings



4. Country select



5. Screen options

6. Frost & Fireguard

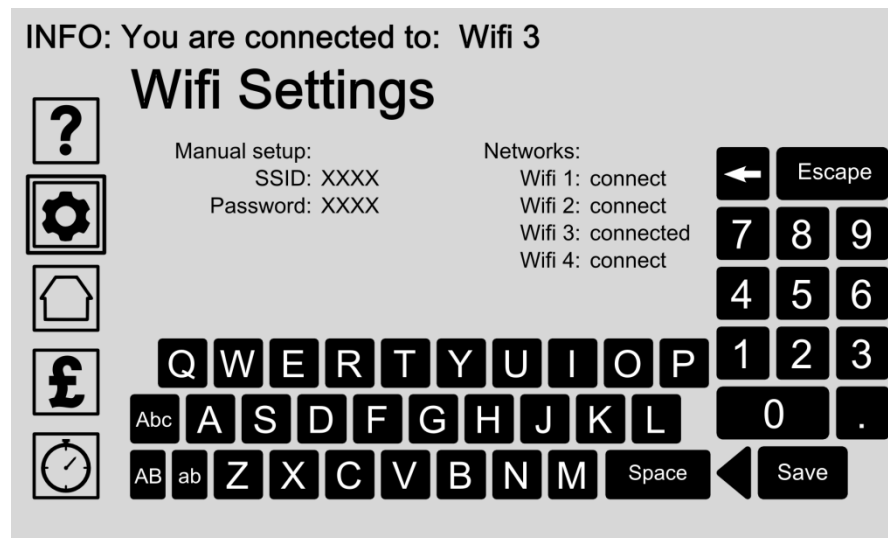


Set up your control panel preferences by choosing one of the displayed options, or click the back arrow button to go back to the previous menu.

Options:

- **Wifi settings** (Page 9)
Amend your Wifi settings to enable the control panel to connect to the internet for software updates or access your control panel via your Smartphone.
- **Time & date** (Page 10)
The time and date is needed for the control panel to accurately regulate your heater system and provide you with up to date performance and cost data.
- **Tariff settings** (Page 11)
Enter your tariff rate to get accurate cost and performance data for your system.
- **Country select** (Page 12)
Select your country to automatically set the date, time and units of measurement settings. This is required to calculate and display your cost performance targets
- **Screen options** (Page 13)
Edit which status messages appear on the main status screen or change the control panel screen brightness levels and touch-screen settings.
- **Frost & Fireguard**
Note: Only available with a CHS installation.

Wifi Settings



Amend your Wifi settings to enable your control panel to connect to the internet for software updates. A Smartphone can also function as a Wifi Hotspot. Connecting to the internet also allows you to access your control panel via your Smartphone.

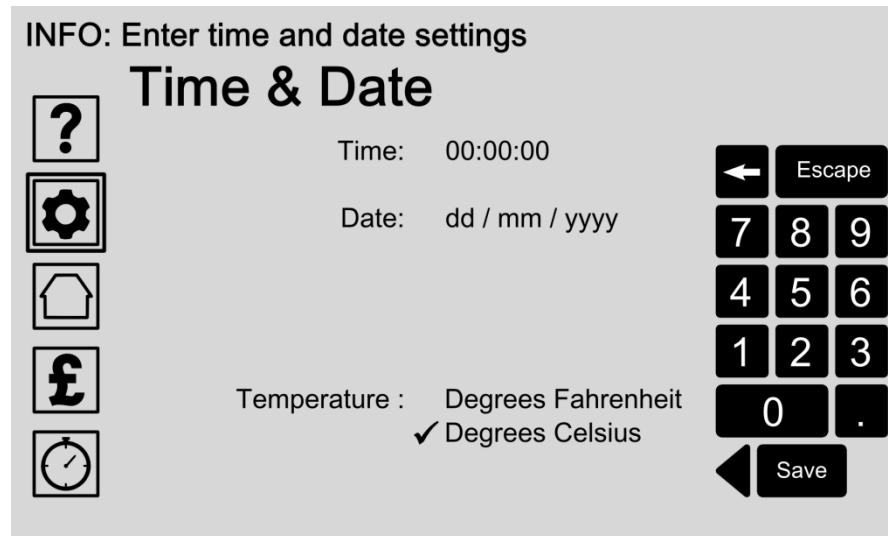
Use the keypads to type in your settings and press the save button to store your settings.

The INFO message at the top displays the current Wifi status.

Options:

- **Manual setup**
Enter your network name or SSID (service set identifier) and password to add your Wifi network to the control panel. Use the keypads to type in your settings and press the save button to store your settings.
- **Connect to an available network**
Choose from the list of available networks and touch once to connect or unselect by touching the screen option again.

Time & Date



The time and date is needed for the control panel to accurately regulate your water heater system and provide you with up to date performance and cost data.

Once set, you should not need to adjust the time and date again if your control panel is connected to the internet. Time and date updates will then be automatic.

Alternatively, use the 'Country Select (Page 12)' option to automatically set the correct time, date, currency and temperature units.

Options:






- **Enter time**
Enter the current time by first selecting that area on the screen.
The time format is Hours: Minutes: Seconds
Use the keypads to type in your settings and press the save button to store your settings.
- **Enter date**
Enter the current date by selecting that area on the screen.
The date format is Day / Month / Year.
Use the keypads to type in your settings and press the save button to store your settings.
- **Manually change temperature units**
Temperature units are automatically selected by using the Country Select (Page 12) option. Manually change your preferred temperature units by tapping the screen:
 - Select Degrees Fahrenheit or;
 - Select Degrees Centigrade.

Press the save button to store your settings.

Tariff Settings


INFO: Enter tariff settings

Tariff Settings



Electricity tariff
per kWh: 0.1009 GBP

Metered water charge
per cubic metre: 0.0000 GBP

 Escape

7

8

9

4

5

6


1

2

3

0

.

 Save

Entering your electricity and metered water charge tariff allows accurate cost and performance data feedback for your system.

Your tariff settings can be found on your utilities bill, or by contacting your service provider.

Please remember to amend your tariff rate on the control panel if and when your tariff changes.

Options:

- **Enter your electricity tariff**
Enter your electricity tariff per kWh by first selecting that area on the screen. Use the keypads to type in your settings and press the save button to store your settings.
- **Enter your water charge tariff**
Enter your metered water charge tariff per cubic metre of cold water by first selecting that area on the screen. Use the keypads to type in your settings and press the save button to store your settings.

Tip:

15p is entered as 0.1500 GBP

20p is entered as 0.2000 GBP

Country Select



Setting your location allows your control panel to automatically set the correct time, date, currency and units of measurement settings. These are required to display and calculate your cost performance targets and the system temperature accurately.

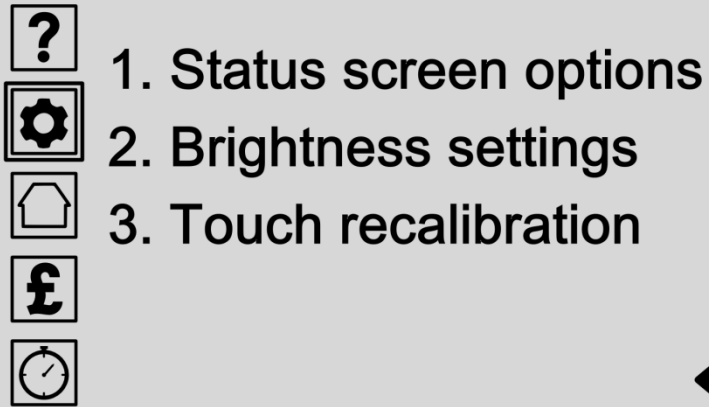
Alternatively you can change the units of temperature manually via the Time & Date screen on page 10.

Options:

- **Select your country**
Touch the screen to select your country location. If your country is one where the CHS or ILHWS is available the time, date, currency and units of measurement will be automatically set. Press the save button to store your entry.
- **Adjust time zone**
If necessary adjust the time zone manually by tapping above or below the time zone reading. Press the save button to store your entry.

Screen Options

INFO: Select an option to adjust

- 
- A screenshot of a grey rectangular menu box. On the left side, there are five square icons stacked vertically: a question mark, a gear, a house, a pound sterling symbol (£), and a clock. To the right of these icons, the following text is listed:
- 1. Status screen options
 - 2. Brightness settings
 - 3. Touch recalibration
- Below the third option, there are two more icons: a pound sterling symbol (£) and a clock. A black left-pointing arrow is located at the bottom right of the menu box.

Screen options allow you to change how your control panel looks and adjust the touch-screen settings.

Choose which performance data appears on the main status screen by selecting 'Status screen options'.

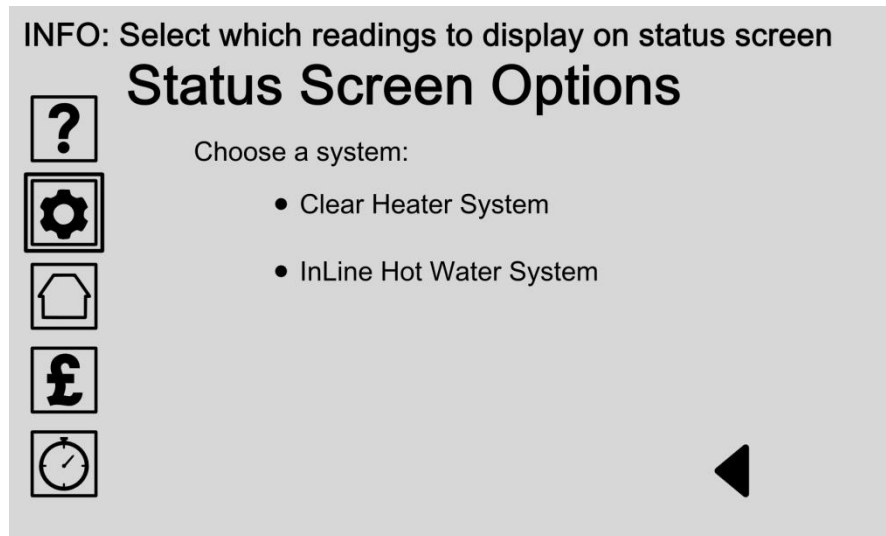
Change the screen brightness and energy saving settings by selecting 'Brightness settings'.

'Touch recalibration' allows you to fine tune the touch-screen sensitivity settings.

Options:

- **Status Screen Options** (Page 14)
Choose which performance data appears on the main status screen.
- **Brightness Settings** (Page 16)
Change the screen and LED brightness levels, or adjust the how long the screen stays on before switching into energy saving mode.
- **Touch Recalibration** (Page 17)
'Touch recalibration' adjusts the control panel sensitivity settings.
Choose this option to start the recalibration process where you'll be asked to touch a white dot at the top-left, bottom-right and middle of the screen to automatically calibrate the screen.

Status Screen Options: Choose a System



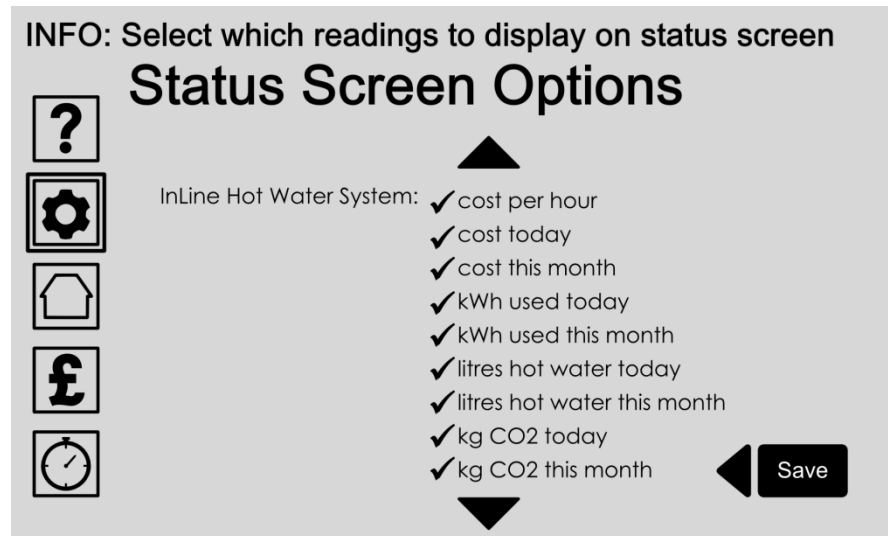
Options:

- **Choose Clear Heater System**
Choose this option to adjust the performance data readings if you have a Clear Heater System installation.
- **Choose InLine Hot Water System** (Page 15)
Choose this option to adjust the performance data readings for your InLine Hot Water System.

You can choose which performance data appears on the main status screen. First choose your heater system from the list. If you only have one heater system available only one option will be listed.

Please check our website for product updates.

Status Screen Options: Choose Readings



Options:

- **Choose your readings**

Choose from the list which performance data readings appear on the main status screen.

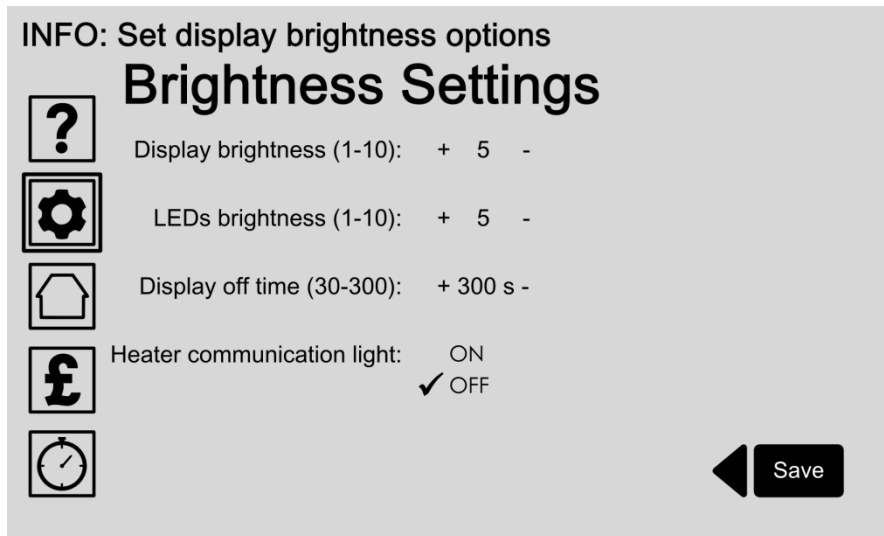
Touch once to select or again to unselect. Selected items will display a tick next to the item.

Scroll up and down the list with the arrows. Press the save button to store your entry.

You can choose which performance data readings appear on the main status screen by selecting from the list of options.

Once your choice is selected it will display a tick next to the item and will be displayed on the main status screen. The status screen is reached by pressing the 'Home' icon.

Brightness Settings



The display brightness option is the backlight brightness level of the main LCD display screen.

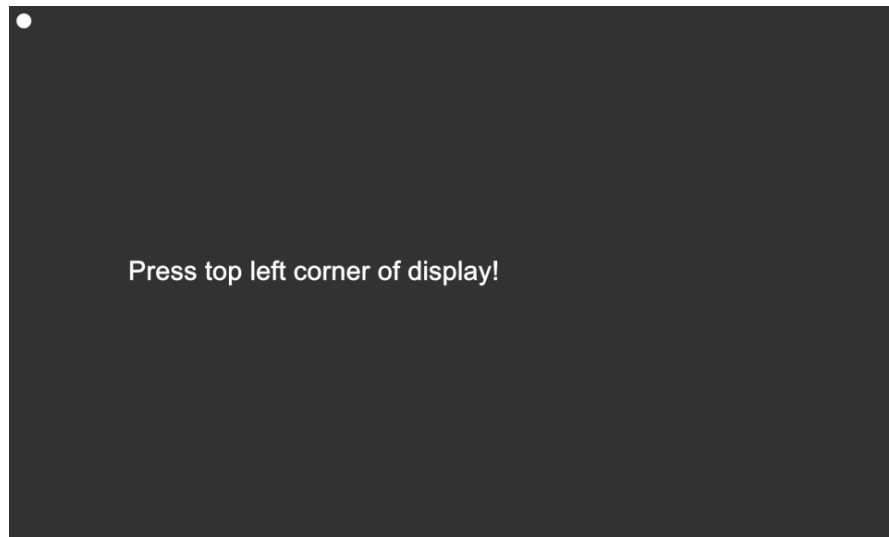
The control panel has three blue LEDs that switch on when the control panel goes into sleep mode. Sleep mode is the energy saving function of the control panel. In sleep mode the main display screen dims to black. You can change how long (in seconds) the display is active before switching off into sleep mode.

Options:

- **Edit display brightness level**
Touch the plus and minus symbols to increase or decrease the brightness setting between 1 and 10. Press the save button to store your entry.
- **Edit LED brightness level**
Touch the plus and minus symbols to increase or decrease the LED brightness setting between 1 and 10. Press the save button to store your entry.
- **Change 'display off time' duration**
The 'display off time' function switches the screen display into energy saving mode after a predetermined time.

Touch the plus and minus symbols to increase or decrease the display off time setting between 1 and 300 seconds (5 minutes). Press the save button to store your entry.
- **Edit heater communication light settings**
Note: only available with CHS installations.

Recalibration



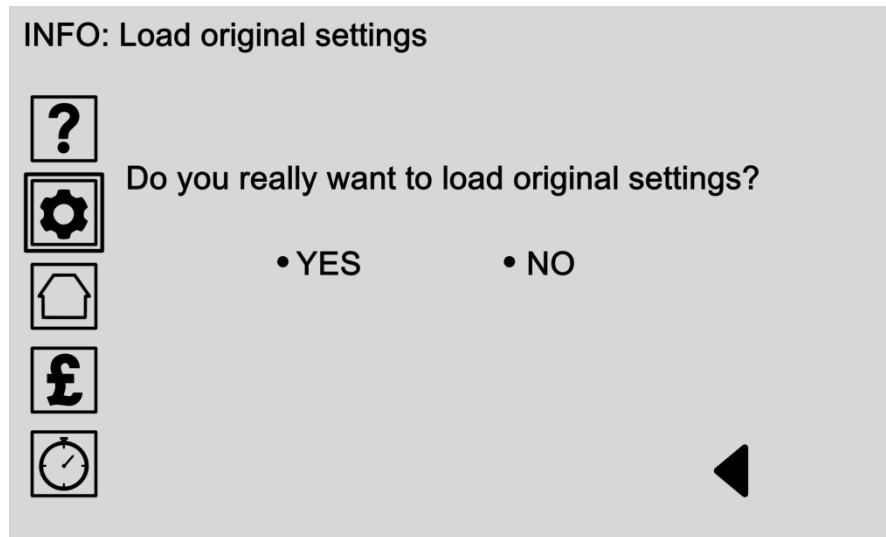
Touch-screen recalibration adjusts the control panel display sensitivity to your own touch pressure.

Choose this option from the **Screen Options Menu** (Page 13) to start the recalibration process where you'll be asked to touch a dot at the top-left, bottom-right and middle of the screen to automatically adjust to your settings. When completed, the confirmation screen will display the results.

Options:

- **Press top left corner of display**
Press the dot at the top left corner of the display. The next screen will then be automatically displayed.
- **Press bottom right corner of display**
Press the dot at the bottom right corner of the display. The next screen will then be automatically displayed.
- **Press dot on the display**
Press the dot on the display. The next screen will then be automatically displayed.
- **Results**
The confirmation screen will display the results.

Load Original Settings



Load the original settings if you want to reset the system back to the original factory settings. Once reset, you will have to re-enter all your settings and preferences again.

Options:

- **Select YES**
Choose YES to load the original factory settings.
Warning: all stored settings and preferences will be deleted.
- **Select NO**
Choose NO to cancel this action and return to the previous screen.

InLine Hot Water System Settings

INFO: Select an option to adjust



1. Complete system



2. Adjust zones



3. Adjust water heaters

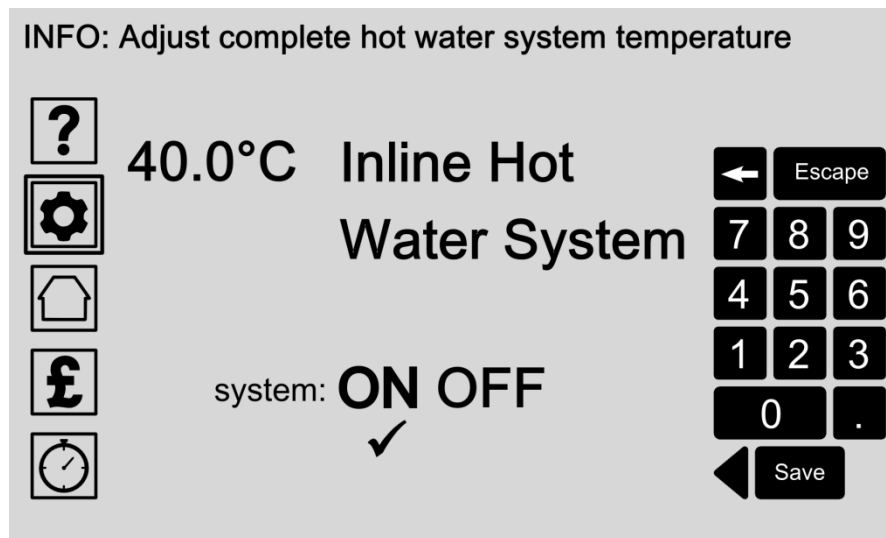


Options:

- **Complete system** (Page 20)
Adjust the temperature of the whole system or turn the system on or off.
- **Adjust zones** (Page 21)
A zone is a group of water heater units with the same settings. This makes it easy to adjust the temperature of multiple units together.
- **Adjust water heaters** (Page 26)
Water heater units can be set to operate individually.

Access all your InLine Hot Water System settings from this menu. Select an option from the list.

Adjust Complete System



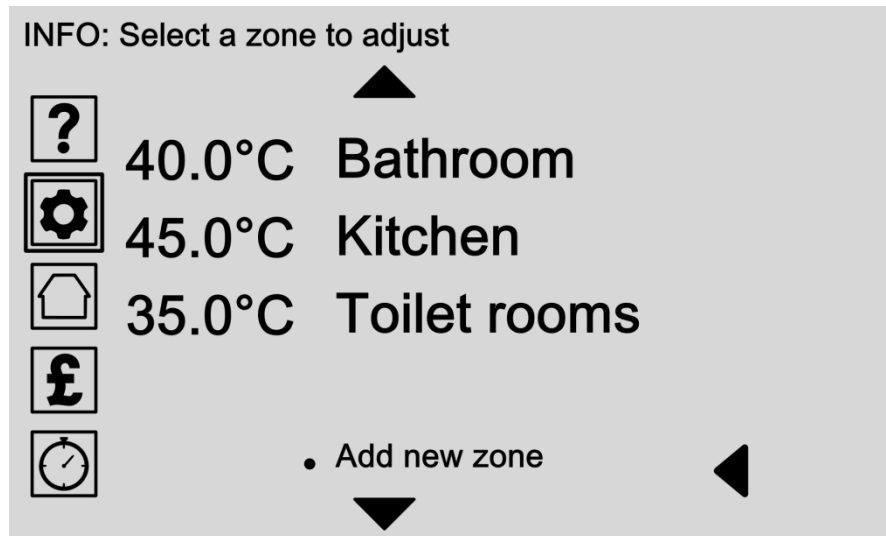
Options:

- **Adjust complete system temperature**
Select this option by touching the screen and type the details using the keypad. Press the save button to store your entry.
- **Turn InLine Hot Water System On or Off**
Select ON or OFF to turn the complete water heater system on or off. Press the save button to store your entry.

The complete water heater system can be given one temperature setting across all water heaters. Adjust the temperature of the whole system by entering numbers in the keypad.

You can also turn the system on and off. Leave the system on if you want the control panel to optimise your water heating for you.

Adjust Zones



A zone is a group of water heater units working together with the same settings. This makes it easy to adjust the temperature of multiple units together.

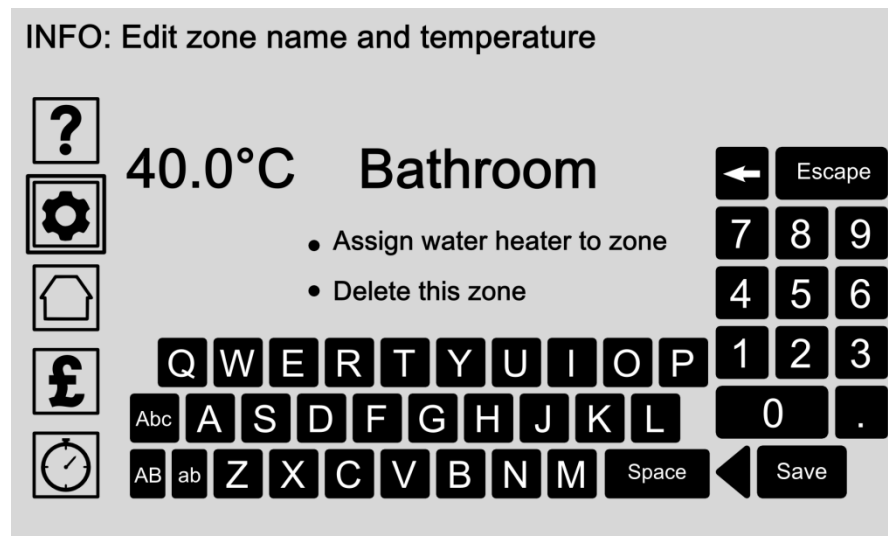
For example, you could choose to heat the bathroom and kitchen hot water taps to the same settings, saving you time when making adjustments.

Scroll through the list to select an existing zone to adjust or press 'Add new zone' to add a new zone to the system.

Options:

- **Adjust an existing zone** (Page 22)
Choose a zone name from the list of existing zones to be able to:
 - edit the zone name and temperature (Page 22)
 - assign water heater units to the zone (Page 24)
 - delete the zone from the system (Page 25)Use the scroll arrows to move up and down the list or select the back arrow to go back one screen.
- **Add new zone** (Page 23)
Select this option to manually add a new zone to the system.

Edit Zone Name & Temperature



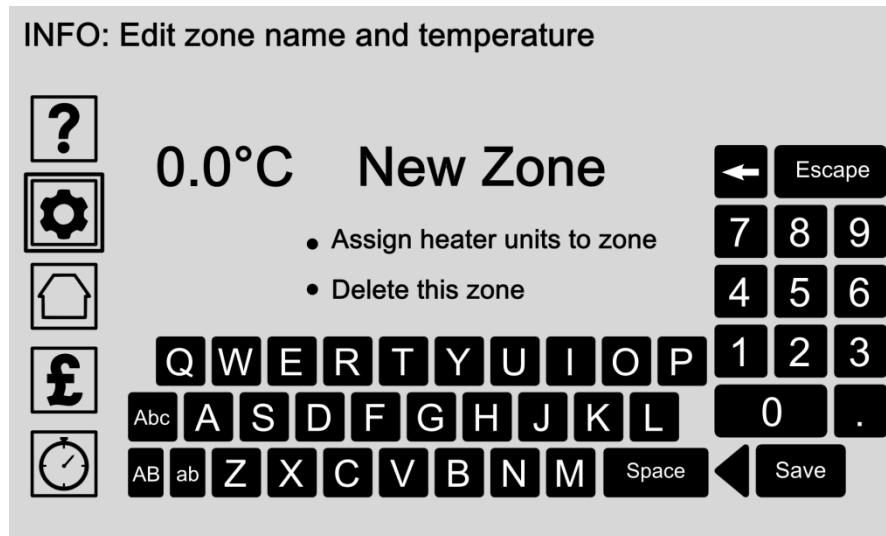
Give each zone a unique name and water temperature by entering the details with the keypad.

Water heater units can also be assigned to a zone or the zone can be deleted from the system.

Options:

- **Edit zone name and temperature**
Touch the screen and type the name and temperature details using the keypad. Press the save button to store your entry.
- **Assign water heater to zone** (Page 24)
Water heater units can be assigned to a zone by selecting this option.
- **Delete this zone** (Page 25)
Zones can be deleted from the system by selecting this option. Only the zone will be deleted and not the individual water heater units. You will be asked to confirm your selection on the next screen.

Add New Zone



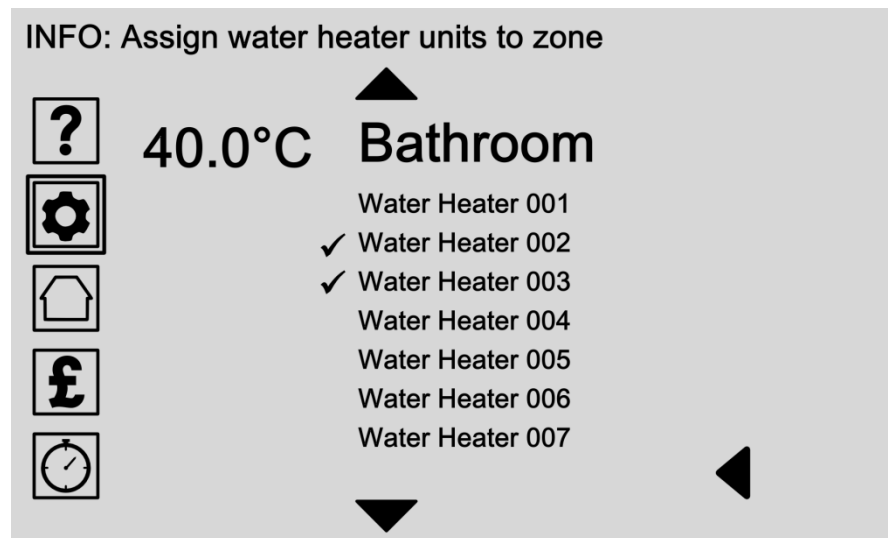
Give each zone a unique name and water temperature by entering the details with the keypad.

Water heater units can also be assigned to a zone or the zone can be deleted from the system.

Options:

- **Edit zone name and water temperature**
Touch the screen and type the name and temperature details using the keypad. Press the save button to store your entry.
- **Assign heater units to zone** (Page 24)
Water heater units can be assigned to a zone by selecting this option.
- **Delete this zone** (Page 25)
Zones can be deleted from the system by selecting this option. Only the zone will be deleted and not the individual water heater units. You will be asked to confirm your selection on the next screen.

Assign Water Heater Units to Zone



Options:

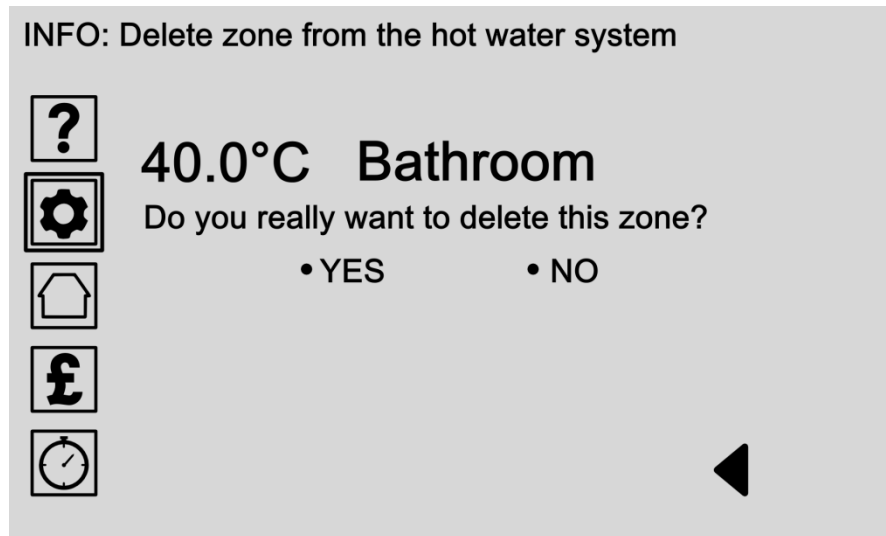
- **Assign water heater units to zone**
Select water heater units from the list of available units to add them to the zone. You can choose multiple water heater units for each zone.

Scroll up and down the list with the arrows.
Touch a water heater name once to select or again to unselect. Selected water heater units will display a tick next to the name.

Choose which water heater units should operate within this zone by selecting the water heater names from the list. All water heater units assigned to a zone will then use that zone's settings.

Assigned water heater units will display a tick next to the name.

Delete Zone



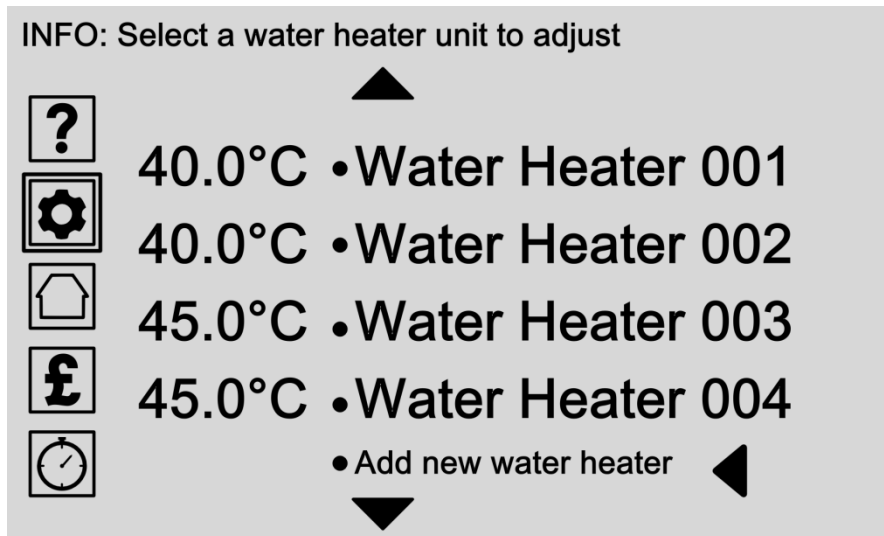
Options:

- **Select YES**
Choose YES to delete this zone from the system.
Warning: This action cannot be reversed. Only the zone will be deleted and not the individual water heater units.
- **Select NO**
Choose NO to cancel this action and return to the previous screen.

Zones can be deleted from the system. Only the zone will be deleted and not the individual water heater units.

Confirm your choice by selecting yes or no.

Adjust Water Heaters



Water heater units can be set to operate individually or in a zone.

Adjust the individual settings here to give each water heater unit a unique setting.

Options:

- **Adjust an existing water heater unit** (Page 30)
Choose a water heater name from the list of existing water heater units to be able to:
 - edit the name and temperature (Page 30)
 - assign the water heater unit to a zone (Page 24)
 - delete the water heater from the system (Page 31)Use the scroll arrows to move up and down the list or select the back arrow to go back one screen.
- **Add new water heater** (Page 27)
Select this option to manually add a new water heater to the system.

Add New Water Heater

INFO: Add new water heater to the system

Enter Heater ID:

?

⚙️

🏠

£

🕒

←

Escape

7

8

9

4

5

6

1

2

3

Abc

A

S

D

F

G

H

J

K

L

0

.

AB

ab

Z

X

C

V

B

N

M

Space

Save

Each water heater unit has a unique identification number on the underside of the base. Plug in your new heater unit and enter the heater ID number here to automatically add it to the system.

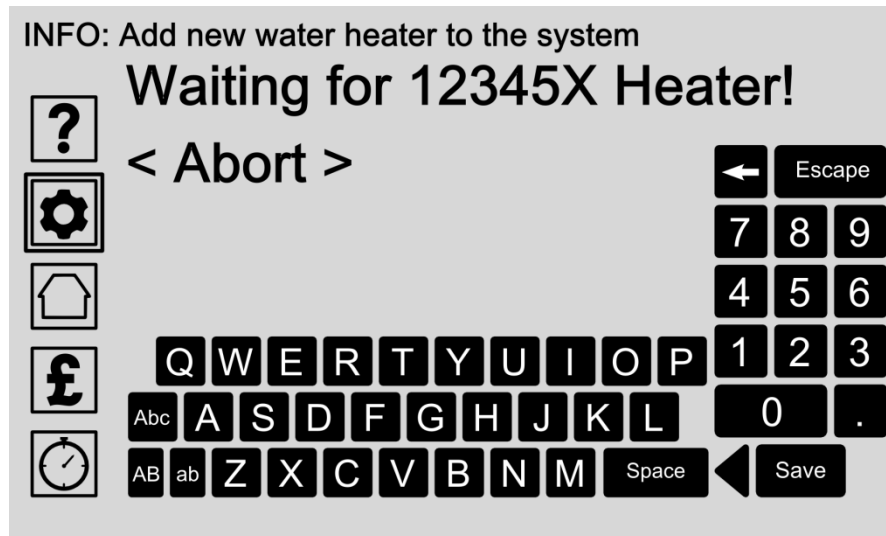
Options:

- **Enter heater ID**
Touch the screen and enter the water heater identification number using the keypad. The ID number can be found on the underside of the water heater base.

Press the save button to store your entry.

Wait for the control panel to find and connect to the new water heater unit on the next screen:
Connecting to new heater unit (Page 28)

Add New Water Heater: Waiting



Each water heater unit has a unique identification number on the underside of the base. Once you enter this number on the previous screen (Page 27), the control panel attempts to connect the new water heater unit automatically.

Options:

- **Wait while connecting to new water heater unit**
After the unique ID number is entered on the previous screen (Page 27) wait for the control panel to connect to the new water heater unit.
- **Abort**
Cancel the operation by pressing the abort option.

Add New Water Heater: Confirmation



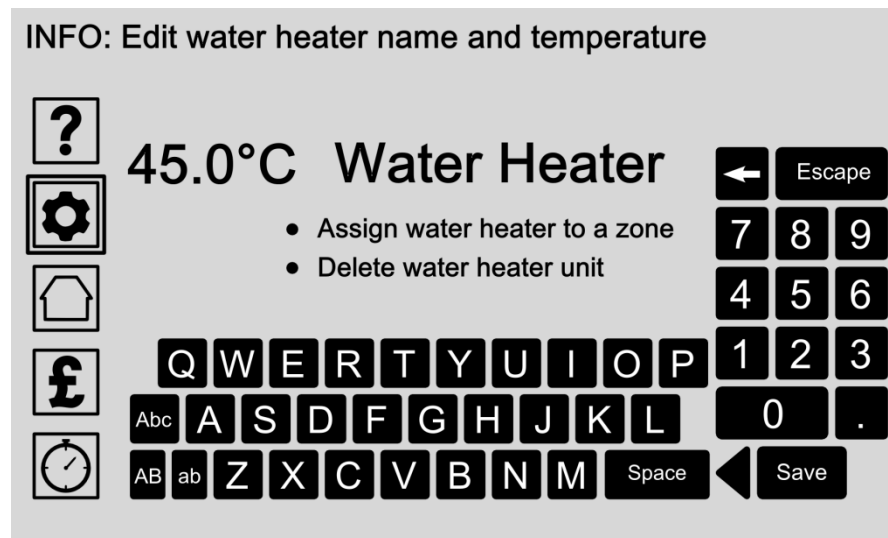
Options:

- **Adjust Heater** (Page 26)
When a water heater unit is successfully added to the control panel you can adjust its individual settings to be able to change its name and temperature, assign the water heater unit to a zone, or delete the heater unit from the system.
- **Add New** (Page 27)
Choose this option to repeat the process and add an additional water heater unit.

Each water heater unit has a unique identification number on the underside of the base. Once you enter this number on the previous screen, the control panel attempts to connect the new water heater unit automatically. The results are shown on this screen.

If successful you can adjust its individual settings or repeat the process to add an additional water heater unit.

Edit Water Heater Name & Temperature



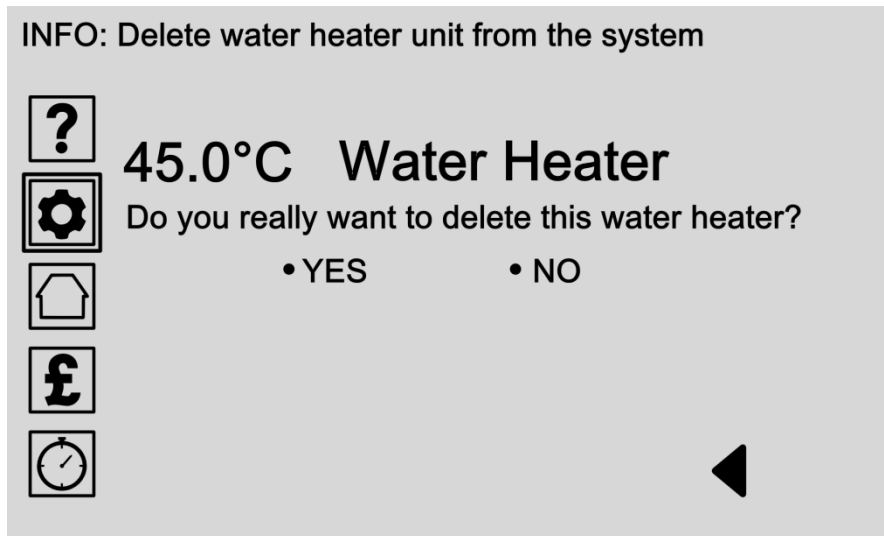
Give each water heater unit a unique name and temperature by entering the details with the keypad.

Water heater units can also be assigned to a zone or deleted from the system.

Options:

- **Edit water heater name and temperature**
Touch the screen and type the name and temperature details using the keypad. Press the save button to store your entry.
- **Assign water heater to a zone** (Page 24)
The water heater unit can be assigned to a zone by selecting this option.
- **Delete water heater unit** (Page 31)
Water heater units can be deleted from the system by selecting this option. You will be asked to confirm your selection on the next screen. Water heater units can always be added again after you delete it.

Delete Water Heater Unit



Options:

- **Select YES**
Choose YES to delete this water heater unit from the system. **Warning: This action cannot be reversed. Only this water heater unit will be deleted, but it can be added again if you make a mistake.**
- **Select NO**
Choose NO to cancel this action and return to the previous screen.

Water heater units can be deleted from the system. Confirm your choice on this screen by selecting YES or NO. If you make a mistake, a water heater unit can always be added again by selecting the '**add new water heater**' option on page 26.

Section 3: Status Screen

Select the Status (Home) Icon on your control panel display then turn to page 33.



Section 1:
Help Mode (Page 4)



Section 2:
Control Panel & Heater Settings (Page 6)



Section 3:
Status Screen (Page 32)

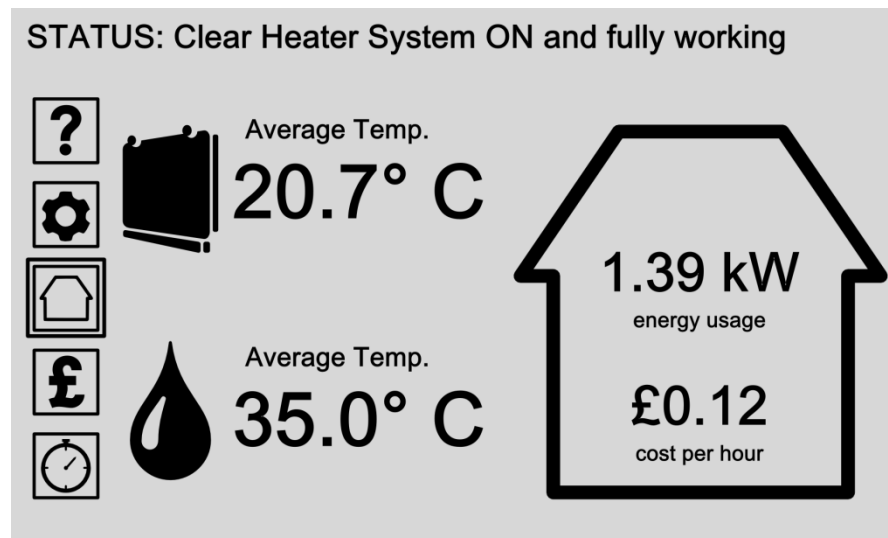


Section 4:
Cost & Energy Settings (Page 35)



Section 5:
Timer Settings (only available with CHS)

Status Screen - Summary



The status screen displays a summary of your heater systems all in one place. The Clear Heater System (if installed) is displayed by a heater unit icon. The Inline Hot Water System (if installed) is displayed with a water drop icon.

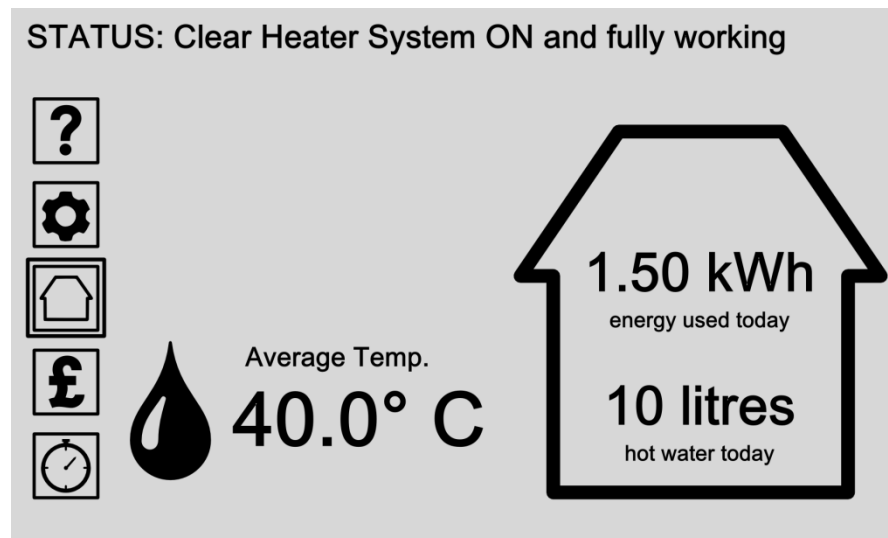
Use the menu buttons on the left to access all your settings and preferences. Pressing the Status (Home) icon at any time brings you back to the status screen.

You can choose which status readings are displayed here by pressing the 'Control Panel & Heater Settings' Icon then choosing Main Settings / Screen Options / Status Screen Options (See page 13).

Options:

- Choose a menu option from the left hand list to access all settings, preferences and help options.
- **Select the CHS heater unit icon**
Select the CHS heater unit icon to access more status information about your Clear Heater System (if installed).
- **Select the water drop icon** (Page 34)
Select the Water Drop icon to access more status information about your InLine Hot Water System (if installed).

Status Screen - InLine Hot Water System



Options:

- Choose a menu option from the left hand list to access all settings, preferences and help options.
- **Select the CHS heater unit icon**
Select the CHS heater unit icon to access more status information about your Clear Heater System (if installed).
- **Select the water drop icon** (Page 34)
Select the Water Drop icon to access more status information about your InLine Hot Water System (if installed).

The status screen displays a summary of your heater system all in one place. A Clear Heater System (if installed) is displayed by a heater unit icon. An Inline Hot Water System (if installed) is displayed with a water drop icon.

Use the menu buttons on the left to access all your settings and preferences. Pressing the Status (Home) icon at any time brings you back to the status screen.

You can choose which status readings are displayed here by pressing the 'Control Panel & Heater Settings' Icon then choosing Main Settings / Screen Options / Status Screen Options (See page 13).

Section 4: Cost & Energy Settings

Select the Cost & Energy Settings (Pound) Icon on your control panel display then turn to page 36.



Section 1:

Help Mode (Page 4)



Section 2:

Control Panel & Heater Settings (Page 6)



Section 3:

Status Screen (Page 32)



Section 4:

Cost & Energy Settings (Page 35)



Section 5:

Timer Settings (only available with CHS)

Cost & Energy Settings

INFO: Select a system to adjust cost & energy targets



1. Clear Heater System



2. InLine Hot Water System



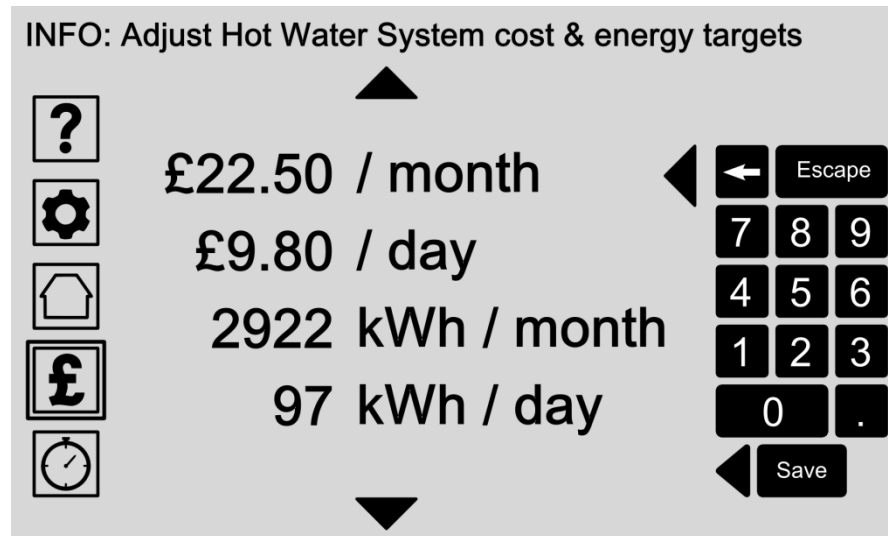
Options:

- **Select Clear Heater System**
Select Clear Heater System if installed to start editing your budget and energy targets for home space heating.
- **Select InLine Hot Water System** (Page 37)
Select InLine Hot Water System to start editing your budget and energy targets for water heating.

You can set your own budget and energy targets to help keep track of costs and energy usage. Choose your heater system from the list to start editing your targets.

Please check our website for product updates.

Adjust Cost & Energy Settings



You can set your own targets to plan your water heating usage on a daily or monthly basis in terms of actual cost, energy used, water used, or carbon dioxide output.

Choose a reading from the list, scrolling up or down where necessary and enter your preferred value or budget target with the keypad.


As you change one reading, all other readings automatically update and adjust to your chosen target.

Press the save button to store your entry.

Options:

- **Adjust cost targets**
Set your targets in terms of spend per day or month.
- **Adjust water use targets**
Set your targets in terms of maximum litres of water heated per day or month.
- **Adjust energy targets**
Set your targets in terms of kWh used per day or month.
- **Adjust environmental targets**
Set your targets in terms of CO² used per day or month.

Specification: Control Panel

Logicor Model No.	PSU 1001 (Control Panel) 
Voltage	230V (UK, NZ, Australia) 120V (U.S.)
Voltage Type	AC
Frequency	50Hz (UK, NZ, Australia) 60Hz (U.S.)
Power Rating	130mA
Width	204mm
Height	146mm
Depth	58mm
Weight	<1kg
Colour	White
IP Rating (Ingress Protection)	IP40

MATERIALS

Body: White plastic casing

Base: Chrome plated Aluminium

Electric Supply: Located on the rear of the control panel, connection via CAT5 or CAT6 patch lead to a Logicor bespoke power supply unit. The socket outlet shall be installed near the equipment and shall be easily accessible.

TECHNOLOGY

Software: Each Control Panel runs on Logicor proprietary software and is updated automatically using in built Wifi connection or via a micro SD card.

Connectivity: Each Control Panel communicates using the electrical mains wiring but is also equipped Wifi.

Specification: InLine Hot Water System

Heater Model:	ILHWS
Logicor Model No.	ILHWS
Normal Operating Power	6000W (6 kW/h)
Maximum Operating Power	13,200W (13.2 kW/h)
Maximum Operating Pressure	4 bar
Maximum Operating Temperature	48 °C (118 °F)
Output Flow	Average 6 litres / min
Voltage	230V (UK, NZ, Australia) 120V (U.S.)
Voltage Type	AC
Frequency	50Hz (UK, NZ, Australia) 60Hz (U.S.)
Width	500 mm
Height	470 mm
Depth	90 mm
Weight	15kg
Colour	White & Chrome
IP Rating (Ingress Protection)	IPX1

MATERIALS

External Case: ABS

Base: Chrome plated ABS

Internal Case: Steel

Electric Supply: Located at the right of the ILHWS as you face the unit.

TECHNOLOGY

Heating Method: In line electric (no individual water tanks required).

Internal: Logicor proprietary computer controlled software.

TEMPERATURE CONTROL

Programmable via Control Panel.

ASSEMBLY & PACKAGING

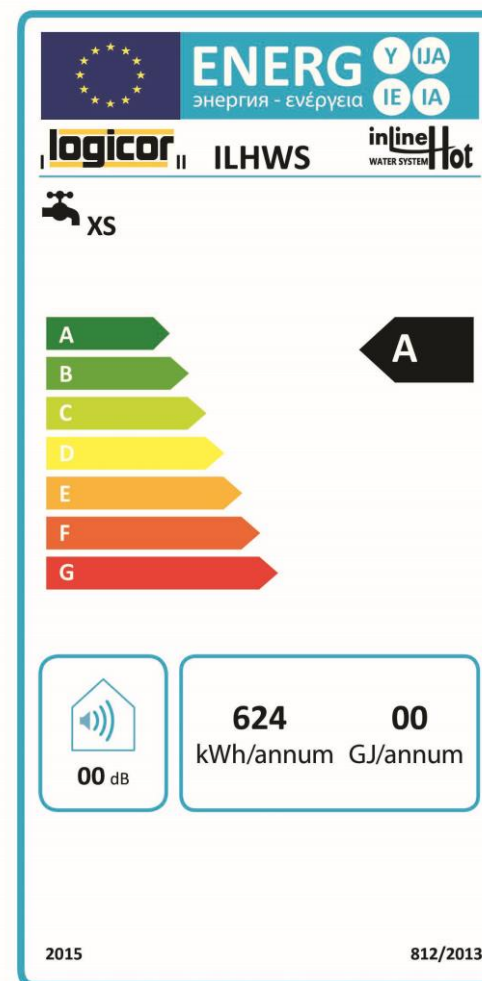
No Assembly required. All InLine Hot Water Heater Systems arrive ready to install.

Each InLine Hot Water System is packed in a single specifically designed carton with shock protection.



Model Identifier(s) : ILHWS-A Rating

Model(s): ILHWS							
Condensing boiler: [No]							
Low-temperature (2) boiler: [No]							
BI boiler: [No]							
Cogeneration space heater: [No]				If yes, equipped with a supplementary heater: [N/A]			
Combination heater: [No]							
ITEM	SYMBOL	VALUE	UNIT	ITEM	SYMBOL	VALUE	UNIT
Rated heat output	Prated	13.2	kW	Seasonal space heating energy efficiency	η_s	N/A	%
Auxiliary electricity consumption				Other items			
At full load	elmax	0	kW	Standby heat loss	Pstby	N/A	kW
At part load	elmin	0	kW	Ignition burner power consumption	Pign	N/A	kW
In standby mode	PSB	0	kW	Emissions of nitrogen oxides	NOx	N/A	mg/kWh
For combination heaters:							
Declared load profile	XS			Water heating energy efficiency	η_{wh}	39	%
Daily electricity consumption	Qelec	1.71	kWh	Daily fuel consumption	Qfuel	N/A	kWh





Clear Heater System

inline
WATER SYSTEM **Hot**

MANUFACTURER:

Logicor (CH) Ltd
Unit 7 Thornes Office Park
Monckton Road
Wakefield WF2 7AN
West Yorkshire UK

www.logicor.co.uk

www.clear-heater.co.uk

