



Clear Heater System

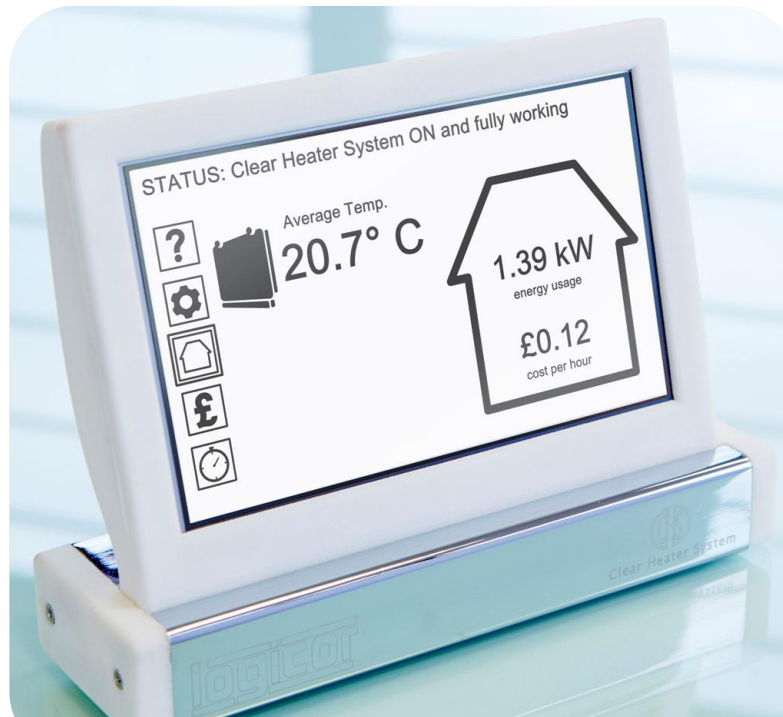
Control Panel User Guide

Logicor (CH) Ltd

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Language: English



SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE
CONSERVER CES INSTRUCTIONS POUR RÉFÉRENCE FUTURE

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Safety Instructions

(English - Part 1 of 3)

In the interest of safety against the potential risk of fire, electric shock and injury to persons all instructions detailed within this manual should be read and understood before use.

The following symbols are relied upon for safety and are used on the Logisor CHS heater panels and may be referenced throughout this document.

| <u>SYMBOL</u> | <u>MEANING / DESCRIPTION</u> | <u>SIGNIFICATION / DESCRIPTION</u> |
|---|--|--|
|  | WARNING/CAUTION An appropriate safety instruction should be followed or caution to a potential hazard exists. | AVERTISSEMENT Une consigne de sécurité appropriée doivent être suivies ou garde d'un danger potentiel existe. |
|  | DANGEROUS VOLTAGE To indicate hazards arising from dangerous voltages. | TENSION DANGEREUSE Pour indiquer les dangers résultant des tensions dangereuses. |
|  | PROTECTIVE EARTH (GROUND) To identify any terminal which is intended for connection to an external conductor for protection against electric shock in case of a fault, or the terminal of a protective earth (ground) electrode. | TERRE DE PROTECTION Pour marquer bornes destinées à être raccordées à un conducteur de protection extérieur contre les chocs électiques en cas de défaut d'isolement, ou pour marquer la borne de la terre de protection |
|  | HOT SURFACE To indicate that the marked item can be hot and should not be touched without taking care. | ATTENTION, SURFACE TRÉS CHAUDE Pour indiquer que l'élément marqué peut être chaud et ne doit pas être touché sans prendre soin. |
|  | DO NOT COVER In order to avoid overheating, do not cover the heater panel. | NE PAS COUVRIR Afin d'éviter la surchauffe, ne couvrez pas le panneau Chauffant. |

Safety Instructions

(English - Part 2 of 3)

Installation

- **The Clear Heater 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 Clear Heater System in the most effective position to heat your property safely and efficiently. The installation video is available to view on the clear-heater.co.uk website.

If you have instructed your installer to leave the plugs on the end of your heater power cables and to fit wall outlet sockets instead of hard wiring them into a spur, then you can power down your heater by removing the plug from the wall socket. To avoid any trip hazards, your installer should ensure that any extra trailing wire is tacked in place or a shortened cable length is used. Your installer will be able to order cable to the correct length from Logicor. You are not permitted to cut the mains cable to shorten or length it.

If your installer intends to hard wire the cable into a spur, the installer will cut the cable to the correct length.

- **WARNING - Clear Heater units must not be located immediately below or in front of a wall socket outlet.**
- **WARNING – for vertical wall mounting only. Install to a maximum height of 3m.**

- **WARNING - Bathroom Installations.**
Do not install the control panel or standard heater unit in a bathroom or wet room situation.
- **WARNING - Do not install the Clear Heater System in a wardrobe or to a ceiling.**

Safety & Maintenance

- **WARNING - A heater units must not be used if the glass panels are damaged.**
Clear Heaters are robust and durable but please avoid impacts from sharp or heavy objects: a hammer for example. In the unlikely event that a glass panel of your clear heater unit becomes damaged, disconnect from the electrical supply 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.
- **CAUTION** - The use of this heater by young children under 8 years old, by infirm persons or persons with reduced physical, sensory or mental capabilities, or by persons with a lack of experience and knowledge without supervision is not recommended.
- **CAUTION** - Do not allow young children to play with the appliance. Children of less than 3 years should be kept away unless continuously supervised.

Safety Instructions

(English - Part 3 of 3)

Safety & Maintenance (continued)

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

In the unlikely event of you requiring service please contact your authorized distributor or Logikor by visiting www.logikor.co.uk.

- **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.**



WARNING: Do not cover.

At no point must clothing be hung directly over a Clear Heater unit.

- **WARNING - For Indoor use only.**
- **WARNING - Connect to NEMA 5-15P protected outlet only.**

- **WARNING - Do not use with an extension socket.**
- **WARNING - Do not hang on or place weight on the heater units.**
- **WARNING - Check the cordset and routing regularly for damage. If damaged disconnect from system.**
- **WARNING - Heater units to be mounted in vertical and horizontal orientation only.**
- **WARNING - Do not install near or place combustible materials in the immediate vicinity of a heater unit.**

Cleaning

- **IMPORTANT** - The temperature sensor located in the Heater unit base is designed to cope with normal household dust. Please avoid spraying polish, hair sprays or other chemical sprays near the sensor as it may reduce or damage the performance. Use a clean dry cloth to clean the heaters and control panel but avoid polish, sprays or harsh abrasives.
- **IMPORTANT - Cleaning and user maintenance shall not be made by children.**

Sécurité

(français - partie 1 sur 4)

Dans l'intérêt de la sécurité contre le risque potentiel d'incendie, d'électrocution et de blessures toutes les instructions détaillées dans ce manuel doivent être lues et comprises avant utilisation.

Les symboles suivants sont invoqués pour la sécurité et sont utilisés sur les panneaux de chauffage Logicor CHS et peuvent être référencés dans le présent document.

SYMBOL

MEANING / DESCRIPTION

SIGNIFICATION / DESCRIPTION



WARNING/CAUTION

An appropriate safety instruction should be followed or caution to a potential hazard exists.

AVERTISSEMENT

Une consigne de sécurité appropriée doivent être suivies ou garde d'un danger potentiel existe.



DANGEROUS VOLTAGE

To indicate hazards arising from dangerous voltages.

TENSION DANGEREUSE

Pour indiquer les dangers résultant des tensions dangereuses.



PROTECTIVE EARTH (GROUND)

To identify any terminal which is intended for connection to an external conductor for protection against electric shock in case of a fault, or the terminal of a protective earth (ground) electrode.

TERRE DE PROTECTION

Pour marquer bornes destinées à être raccordées à un conducteur de protection extérieur contre les chocs électiques en cas de défaut d'isolement, ou pour marquer la borne de la terre de protection



HOT SURFACE

To indicate that the marked item can be hot and should not be touched without taking care.

ATTENTION, SURFACE TRÈS CHAUDE

Pour indiquer que l'élément marqué peut être chaud et ne doit pas être touché sans prendre soin.



DO NOT COVER

In order to avoid overheating, do not cover the heater panel.

NE PAS COUVRIR

Afin d'éviter la surchauffe, ne couvrez pas le panneau Chauffant.

Sécurité

(français - partie 2 sur 4)

Installation

- **Le Clear Heater System doit être installé par un installateur certifié agréé par Logicor.**

Nos installateurs doivent répondre à des standards de qualification stricts avant d'être agréés pour l'installation de nos systèmes. Nos installateurs vous conseilleront et installeront votre Clear Heater System à l'endroit le plus efficace pour chauffer votre propriété efficacement en toute sécurité. La vidéo d'installation est disponible pour afficher sur le site Web clear-heater.co.uk.

Si vous avez demandé à votre installateur de laisser les bouchons à l'extrémité de vos câbles d'alimentation de chauffage et d'adapter les douilles de sortie de mur au lieu de mal à les câblage dans un éperon, alors vous pouvez éteindre votre poêle en retirant la fiche de la prise murale. Pour éviter tout risque de chute, votre installateur doit veiller à ce que tout fil de fuite supplémentaire est cloué en place ou une longueur de câble raccourci est utilisé. Votre installateur sera en mesure de commander le câble à la bonne longueur de Logicor.

Vous n'êtes pas autorisé à couper le câble d'alimentation de raccourcir ou de la longueur il. Si votre installateur a l'intention de fil dur le câble dans un éperon, l'installateur de couper le câble à la bonne longueur.

- **AVERTISSEMENT - Les radiateurs Clear Heater ne doivent pas être installés directement sous ou en face une prise de courant murale.** •

- **AVERTISSEMENT - pour montage mural vertical seulement. Installer pour une hauteur maximale de 3m.**
- **AVERTISSEMENT - Installations dans les salles de bain.** Ne pas installer le panneau de contrôle ou unité de chauffage standard dans une salle de bain ou de la situation de la chambre humide.
- **AVERTISSEMENT - N'installez pas le Clear Heater System dans une penderie ou au plafond.**

Sécurité & Entretien

- **AVERTISSEMENT** - Un radiateur ne doit pas être utilisé si les panneaux en verre sont endommagés. Les Clear Heaters sont robustes et durables mais vous devez éviter les chocs avec des objets pointus ou lourds : un marteau par exemple. Dans le cas peu probable où un panneau en verre de votre radiateur Clear Heater serait endommagé, débrancher l'alimentation électrique et contacter *Logicor (CH) Ltd.*
- **ATTENTION - Certaines parties de ce produit peuvent devenir chaudes et causer des brûlures.** Une surveillance particulière est nécessaire en présence d'enfants ou de personnes vulnérables.

Sécurité

(français - partie 3 sur 4)

Sécurité & Entretien (suite)

- **ATTENTION** - L'utilisation de ce radiateur par les jeunes enfants de moins de 8 ans, par les personnes infirmes ou les personnes ayant de faibles capacités physiques, mentales ou sensorielles, ou par des personnes manquant d'expérience et de compétences sans surveillance n'est pas recommandée.
- **ATTENTION** - Ne laissez pas les enfants en bas âge jouer avec l'appareil. Enfants de moins de 3 ans doivent être tenus à l'écart moins d'être surveillés en permanence.
- **AVERTISSEMENT - Ne pas démonter ; cet appareil ne contient aucune pièce réparable par l'utilisateur.**

Dans le cas peu probable où vous auriez besoin d'un service technique, veuillez contacter votre distributeur agréé ou Logicor en visitant www.logicor.co.uk.

- **AVERTISSEMENT - N'utilisez pas l'appareil si le cordon électrique est endommagé.**



Si le cordon électrique est endommagé, il doit être remplacé par son fabricant, son agent de maintenance ou une personne qualifiée apparentée pour éviter un danger.

- **AVERTISSEMENT - Pour éviter la surchauffe, ne couvrez pas le radiateur.**



AVERTISSEMENT : Ne pas couvrir.

Si vous souhaitez sécher des vêtements avec le *Clear Heater System* veuillez acheter un système de séchoir à linge auprès de Logicor.

- **AVERTISSEMENT** - Pour une utilisation en intérieur uniquement.
- **AVERTISSEMENT** - Connectez-vous à prise protégée NEMA 5-15P seulement.
- **AVERTISSEMENT** - Ne pas utiliser avec une prise d'extension.
- **AVERTISSEMENT** - Ne pas accrocher ou placer le poids sur les unités de chauffage.
- **AVERTISSEMENT** - Vérifiez le cordon et le routage régulièrement pour les dommages. Si endommagé déconnecter de système.
- **AVERTISSEMENT** - unités de chauffage pour être montés en position verticale et horizontale.
- **AVERTISSEMENT** - Ne pas installer près ou de placer des matériaux combustibles dans le voisinage immédiat d'une unité de chauffage.

Sécurité

(français - partie 4 sur 4)

Nettoyage

- **IMPORTANT** - Le capteur de température situé dans la base du radiateur est conçu pour fonctionner en présence de poussière domestique normale. Veuillez éviter de vaporiser du vernis, de la laque à cheveux ou d'autres produits chimiques en aérosol à proximité du capteur car cela pourrait réduire ou dégrader la performance. Utilisez un chiffon sec pour nettoyer les radiateurs et le panneau de contrôle, mais évitez le vernis, les vaporisateurs ou les abrasifs agressifs.
- **IMPORTANT - Nettoyage et entretien de l'utilisateur ne sont pas fabriqués par des enfants.**

Seguridad

(Español - parte 1 de 3)

Instalación

Clear Heater System debe ser instalado por un técnico certificado autorizado por Logicor.

Nuestros técnicos deben someterse a unas estrictas normas de calidad antes de ser aptos para instalar nuestros sistemas. Nuestros técnicos le aconsejarán e instalarán su Clear Heater System en la posición más efectiva para calentar su hogar de forma segura y eficaz. El video de instalación está disponible para ver en el sitio web clear-heater.co.uk.

Si le ha indicado su instalador para dejar los tapones en el extremo de los cables de potencia del calentador y para cubrir los zócalos de salida de pared en lugar de efectuar sus conexiones con fuerza en un espolón, a continuación, puede apagar el calentador quitando el enchufe de la toma de corriente. Para evitar el riesgo de tropiezos, el instalador debe asegurarse de que cualquier cable de arrastre extra es clavado en su lugar o se utiliza una longitud de cable más corta. El instalador será capaz de ordenar el cable a la longitud correcta de Logicor. No se le permite cortar el cable de red para acortar o longitud de la misma.

Si el instalador tiene la intención de alambrear el cable en un espolón, el instalador cortará el cable a la longitud correcta.

- **ADVERTENCIA – Las unidades de Clear Heater no deben colocarse justo debajo de un enchufe de pared.**
- **ADVERTENCIA** - para montaje en pared vertical solamente. Instalar a una altura máxima de 3 m.
- **ADVERTENCIA – Instalaciones en los baños.**
No instale el panel de control o unidad de calefacción estándar en el baño ni en situación cuarto húmedo.
- **ADVERTENCIA – No instale Clear Heater System en un armario o techo.**

Seguridad y mantenimiento

- **ADVERTENCIA - No deben usarse las calefacciones si los paneles de cristal están dañados.**
Los dispositivos Clear Heater son resistentes y duraderos, pero le rogamos que evite el impacto de objetos pesados o punzantes, como un martillo. En el caso improbable de que el panel de cristal de su Clear Heater se dañara, desconecte la calefacción del enchufe, siempre que sea seguro, y contacte con Logicor (CH) Ltd.
- **PRECAUCIÓN** - Algunas partes de este producto pueden recalentarse y provocar quemaduras. Preste especial atención cuando haya niños o personas vulnerables cerca.

Seguridad

(Español - parte 2 de 3)

Seguridad y mantenimiento

(continuación)

- **PRECAUCIÓN** - No se recomienda el uso de esta calefacción sin supervisión a niños menores de 8 años, personas enfermas, con capacidad física, mental o sensorial reducida o sin experiencia o conocimiento del producto.
- **PRECAUCIÓN** - No permita que los niños jueguen con el aparato. Los niños de menos de 3 años deben mantenerse alejados menos que estén supervisados continuamente.
- **ADVERTENCIA - No desmonte el aparato. No contiene partes utilizables para el usuario.**
En el caso improbable de que necesite asistencia, por favor, contacte con su distribuidor autorizado o con Logicor en www.logicor.co.uk.
- **ADVERTENCIA – No utilice el aparato si el cable está dañado.**



Si el cable está dañado, debe ser reemplazado por el fabricante, su agente de servicios o personas con cualificación similar para evitar peligros.

- **ADVERTENCIA – Para evitar recalentamientos, no cubra la calefacción.**



ADVERTENCIA: No cubrir.

- **ADVERTENCIA** – Sólo para uso interior.
- **ADVERTENCIA** – Conectarse a NEMA 5-15P única salida protegida.
- **ADVERTENCIA** – No utilizar con una toma de extensión.
- **ADVERTENCIA** – No cuelgue ni coloque peso en las unidades de calentamiento.
- **ADVERTENCIA** – Revise el cordón eléctrico y el enrutamiento regularmente para detectar daños. Si está dañado desconectarse del sistema.
- **ADVERTENCIA** – unidades de calentador para ser montados en un solo orientación vertical y horizontal.
- **ADVERTENCIA** – No instale cerca o coloque materiales inflamables en la proximidad inmediata de una unidad de calefacción.

Seguridad

(Español - parte 3 de 3)

Limpieza






- **IMPORTANTE** - El sensor de temperatura colocado en la base de la calefacción está diseñado para resistir el polvo habitual del hogar. Por favor, no utilice abrillantadores en spray, lacas y otros productos químicos de spray cerca del sensor, ya que puede reducir o dañar el rendimiento. Utilice un paño seco limpio para limpiar las calefacciones y panel de control, pero evite abrillantadores, sprays o productos altamente abrasivos.
- **IMPORTANTE - Limpieza y mantenimiento de usuarios no serán tomadas por los niños**

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. With our smart touch-screen control panel you will benefit from better, more accessible information and control over your heating costs.

The control panel is pre-programmed and ready to go but you can follow the on-screen prompts and this user guide to customize your settings.

| | | |
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|  | Section 1: Help Mode..... | (Page 8) |
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|  | Section 4: Cost & Energy Settings..... | (Page 61) |
|  | Section 5: Timer Settings..... | (Page 64) |

How to use this guide

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

Your control panel also 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. To do this 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 using an electronic (pdf) copy of this guide you can click any page number reference or **MENU ► headings** at the top of the page to go direct to that page.

Check out our website www.clear-heater.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 the Clear Heater System and puts you back in control of your heating budget.

Once the control panel and Clear Heater units are plugged into the wall socket they are ready to communicate with each other using the electrical mains wiring in your home. A Logikor approved installer will be needed to carry out your installation to ensure the heater units are positioned to achieve optimal heating.








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 heater unit, link heater units to work as one unit together, or assign heater units to work in named zones (e.g. all bedrooms).

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.

| | | |
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Clear Heater Units

Our unique patented infrared heaters require no complex plumbing or wiring. A qualified installer will advise on the best position and fit them to the wall. Once the control panel and Clear Heater units are plugged into the wall sockets they are ready to communicate with each other using the electrical mains wiring in your home.

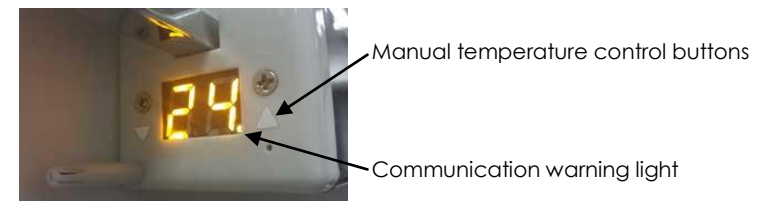
The Clear Heating System is an all-electric phased radiant heating system. The heaters have a very thin carbon heating element sandwiched between two sheets of toughened glass with a mica insert to minimize rear facing heat loss.

We pride ourselves in making robust products that are both elegant in design and provide solutions that work. We are so confident in our heater system that we give you 20 years guarantee on all heater units with a life expectancy of over 33 years.



Important:

- NOTE: The control panel unit has not been evaluated for safety by any NRTL facility.
- A Clear Heater System requires a control panel to operate normally. In case of a loss of communication with the control panel the communication warning light will flash (see page 21 for more detail).
- In case of a loss of communication with the control panel each Clear Heater unit has manual temperature control buttons on the base panel. These are only active if the heater is not connected to its control panel and then only for a limited period of up to eleven days before it stops working. The heater unit will operate again once a control panel is connected. Call your distributor or Logikor to assist you with reactivation (see page 21 for more detail).



CHS Ceiling Heater: *Installation Instructions*

The Logicor Clear Heater System Ceiling Heater is not a product that can be installed by the general public.



The installation of the CHS Ceiling Heater should only be carried out by an approved Logicor installer and they should be a fully qualified electrician.

The Logicor Clear Heater System Ceiling Heater should be installed into a standard suspended ceiling (600mm x 600mm Grid Size). Typically these are found in office and commercial locations.

The Logicor Clear Heater System Ceiling Heater should only be installed where a ceiling height of 1.8 meters or greater is present. Your Logicor engineer will not install the ceiling heater below this height.

The Logicor Clear Heater System Ceiling Heater is not waterproof or water resistant and cannot be installed in a shower or bathroom. Your Logicor engineer will be able to provide you with placement guidelines or if required an IP CHS wall heater which can be installed in some bathroom situations subject to local electrical regulations.

Do NOT cover the CHS Ceiling Heater (front or back) The appliance should under no circumstances be covered with insulation materials or any such similar materials.



WARNING: Do not cover.

The appliance should be installed to allow the free movement of air surrounding the appliance. Joists, beams, rafters or any other supporting structures should not be cut or disturbed in any way for the purpose of installation of this appliance.

Remove the existing ceiling tile (if present) in the suspended ceiling that you wish to locate the CHS Ceiling Heater. Lay the CHS Ceiling Heater flat in the grid so that the metal mesh side is facing downwards from the ceiling grid.

The CHS Ceiling Heater is to be wired into a fused spur; this should be done by a qualified electrician or your Logicor engineer. Before you begin, isolate the power supply that the CHS Ceiling Heater will be connected to. Wire the CHS Ceiling Heater into the fuse spur and install a 3 amp fuse into the spur. Ensure that nothing will cover the back of the CHS Ceiling Heater once all ceiling tiles have been replaced. You are now ready to turn on the system. Your Logicor engineer will spend time with you making sure you are familiar with the controls and the system. The engineer will make any changes to the set up you require.

CHS Ceiling Heater: *Remote Control*

Once your CHS Ceiling Heater units have been installed by a Logicor engineer the CHS Remote Control needs to be set up to control your selected CHS Ceiling Heater Units. Please note this can only be carried out by the Logicor engineer and you will not be able to do this yourself.

You can operate CHS Ceiling Heaters via the Logicor Control Panel or the Logicor CHS Remote Control. There is no manual control option on the CHS Ceiling Heater unit as there are on other CHS heaters units.

The CHS Remote Control communicates via Bluetooth with a range of approximately 10 meters to turn the temperature up or down on your CHS Ceiling Heater units. You can operate the remote from anywhere within the room without having to point directly at the CHS Ceiling Heater unit. Please do not let young children use the CHS Remote Control unsupervised or allow them to change the batteries.

If you drop and damage your CHS Remote Control please contact Logicor and seek a replacement.

Your CHS Remote Control has integrated magnets which will allow it to be stored safely on its wall mount. Please make sure your Logicor engineer has placed your wall bracket on a wall of your choice. The engineer will advise where the CHS Remote Control should not be placed; for example in a shower enclosure.

The CHS Remote Control is easy to operate and your Logicor engineer will advise you how to use it.

The integrated LCD screen displays the actual time which automatically synchronises even after a battery change.



The current target temperature is displayed in the middle of the CHS Remote Control screen.

To increase or decrease the target temperature simply press the up or down arrows on the CHS Remote Control.

CHS Ceiling Heater: *Remote Control Battery Replacement*

The CHS Remote Control requires two AAA batteries. Please use lithium batteries where possible. The battery strength indicator is displayed on the CHS Remote Control screen. A fresh set of batteries will power the CHS Remote Control for an average of two years. We suggest you change the batteries once the battery indicator is down to one bar.

Please install the batteries as per the image after having first removed the battery compartment cover with a screwdriver. Dispose of your old batteries responsibly. Replace the battery compartment lid and tighten the retaining screw using a screw driver.

Please do not let young children use the CHS Remote Control unsupervised or allow them to change the batteries.

The CHS Remote Control will then take up to 10 minutes to complete its resynchronisation protocols linking to it all previously linked Logisor CHS products. Normal operation of the CHS Remote Control will not be possible until this process is complete.



CHS Ceiling Heater: *Room Thermostat*

Individual Temperature Settings

Each CHS Ceiling Heater has an inbuilt infrared camera to measure the temperature in the room directly below the CHS Ceiling Heater Unit and reports this back to your CHS Control Panel.

This allows each CHS Ceiling Heater to be positioned to provide different temperature options at different locations within the same open plan room. Individual comfort levels can therefore be maintained at for example different hospital beds or adjacent office desks.

This function can also be set to detect if a person is present or not below the CHS Ceiling Heater and switch off accordingly to save energy.

Room or Zone Temperature Settings



If you prefer less individual temperature control and instead maintain the same temperature throughout a room or zone you can use the CHS Ceiling Heater Room Thermostat. This is an optional extra you can purchase for use with your Logicor Clear Heater System Ceiling Heaters.

The CHS Ceiling Heater Room Thermostat overrides individual temperature settings unless changed via the Logicor Control Panel.

Several CHS Ceiling Heater Room Thermostats can be used to maintain the same temperature across different rooms or an entire building.

The CHS Ceiling Heater Room Thermostat measures 50mm x 35mm x 13mm and communicates via Bluetooth only with your Logicor CHS Control Panel and CHS Ceiling Heaters.

Your Logicor engineer will advise you on placement options. The unit should be secured to a wall using the two screws provided but not in a bathroom as it is not waterproof or water resistant.

Please do not cover the Logicor CHS Ceiling Heater Thermostat in any way or you will affect its accuracy and functionality.

The CHS Room Thermostat requires one 3V lithium coin cell battery CR2032 which should power the unit for up to 4 years. Your Logicor CHS Control Panel displays a battery strength indicator of each Logicor Ceiling Heater Room Thermostat. We recommend replacing the battery once the battery strength indicator shows one bar.

Do not let young children use the Logicor CHS Ceiling Heater Thermostat unsupervised or remove the battery. Retain all information and stickers on the back of the unit for future reference.

Section 1: Help Mode

Select the Help Icon on your control panel display then turn to page 9.



Section 1:
Help Mode..... (Page 8)



Section 2:
Control Panel & Temperature Settings (Page 10)



Section 3:
Status Screen..... (Page 58)

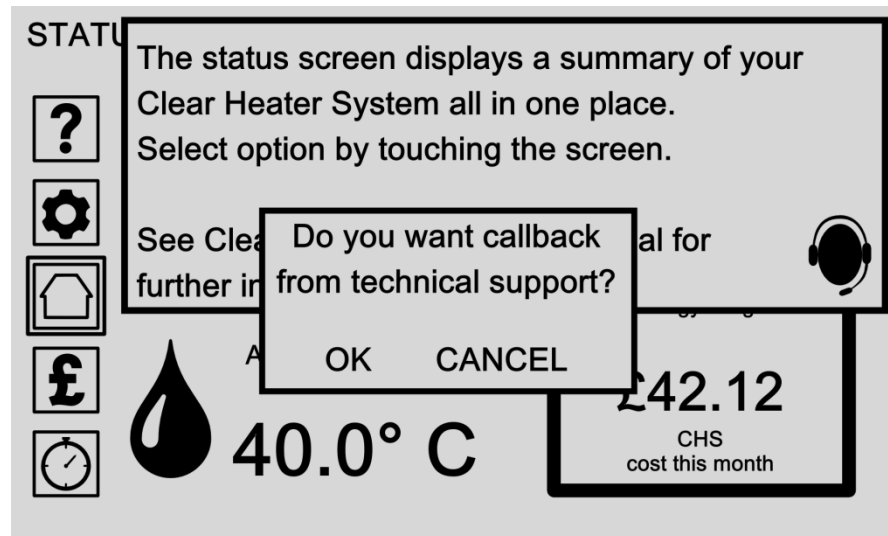


Section 4:
Cost & Energy Settings..... (Page 61)



Section 5:
Timer Settings..... (Page 64)

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.

If you need additional support you can make a callback request to the Logicor support team.

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.
- **Request callback from technical support**
Selecting the callback icon in the lower right corner of the help window will ask you to confirm if you want to proceed with a callback request from Logicor's technical support team. Your saved customer contact details will be used to make the callback call.
- **'Exit' Help**
Press anywhere on the screen to take you back to your previous display.

Section 2: Control Panel & Temperature Settings

Select the Cog Settings Icon on your control panel display then turn to page 11.



Section 1:
Help Mode..... (Page 8)



Section 2:
Control Panel & Temperature Settings (Page 10)



Section 3:
Status Screen..... (Page 58)



Section 4:
Cost & Energy Settings..... (Page 61)



Section 5:
Timer Settings..... (Page 64)

Control Panel & Temperature 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

6. Restricted mode Off ◀

Here are the main control panel and temperature settings for your installed systems.

From here you can change the main settings of your control panel or reset completely to the original factory settings.

Follow the page links to read more about all other options.







Options:

- **Main settings** (Page 12)
Adjust the main settings of the control panel, including Wifi, time and date, tariff settings, units of measurement, screen display options and the fireguard function settings.
- **Load original settings** (Page 24)
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 .
- **Clear Heater System** (Page 25)
Adjust your preferences for individual heater units, create heating zones, or link heater units together to operate as one.
- **Clear Heater Clothes Dryer** (Page 52)
Set up and adjust the clothes dryer function.

WARNING: Please read Safety Section.
ATTENTION: Veuillez lire la section sécurité.
AVISO: Por favor, lea el apartado de seguridad.
- **InLine Hot Water System** (Page 56)
Set up your ILHWS if installed.
- **Restricted mode Off** (Page 57)
Safety feature when power supply is unstable.

Main Settings

INFO: Select an option to adjust

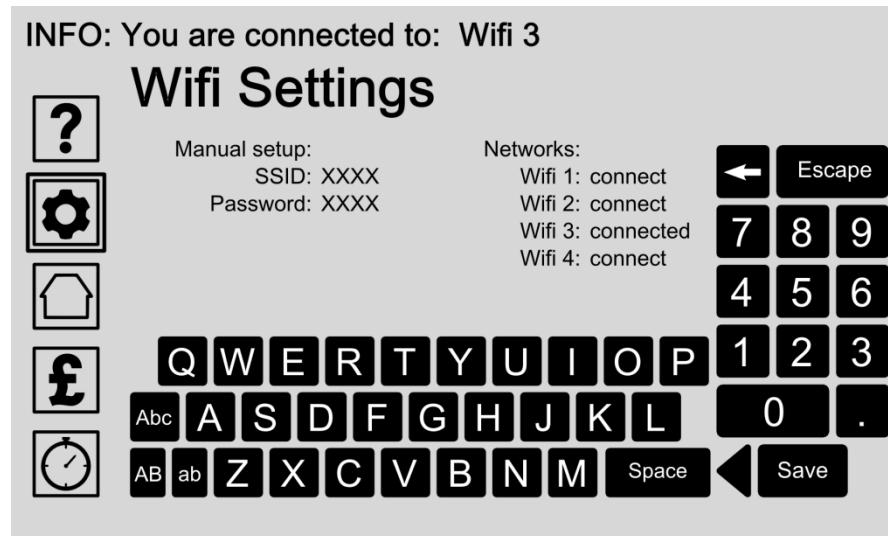
-  1. Wifi settings
-  2. Time & date
-  3. Tariff settings
-  4. Country select
-  5. Screen options
-  6. Frost & Fireguard ◀

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 13)
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 14)
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 15)
Enter your tariff rate to get accurate cost and performance data for your system.
- **Country Select** (Page 16)
Select your country of residence to automatically set the time, currency and units of measurement.
- **Screen options** (Page 17)
Edit which status messages appear on the main status screen or change the control panel screen brightness levels and touch-screen settings.
- **Frost & Fireguard** (Page 23)
Frostguard will turn on a heater in any room if the temperature falls below 3 °C.
Fireguard warns you if a heater unit detects a higher than expected temperature in the room.

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

INFO: Enter time and date settings

Time & Date

?

⚙️

🏠

£

🕒

Time: 00:00:00

Date: dd / mm / yyyy

Temperature : Degrees Fahrenheit
✓ Degrees Celsius

←

Escape

7

8

9

4

5

6

1

2

3

0

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←

Save

The time, date and unit of currency are required to provide accurate performance data. These settings can be automatically configured from the Country Select Screen on page 16.

If you need to change the units and settings manually you may do so from this screen.

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 update automatically.






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.
- **Enter preferred temperature units**
Choose to display temperature in degrees Fahrenheit or degrees Celsius.
Touch once to select or again to unselect.
Selected units will display a tick next to the item.
Press the save button to store your entry.

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

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6

1

2

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0

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◀

Save

Entering your tariff settings 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.

Your electricity tariff is required if you have the CHS system installed.

Your electricity and metered water charge tariffs are required if you have the ILHWS installed.

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 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 metered water charge tariff**
Enter your metered water charge tariff 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

Your local currency should be displayed via the Country Select option on page 16.

Country Select



The correct time and local currency are required to provide accurate performance data.

If your country of residence supports the Clear Heater System you will be able to select that country from the map to automatically set the time zone and currency denomination.

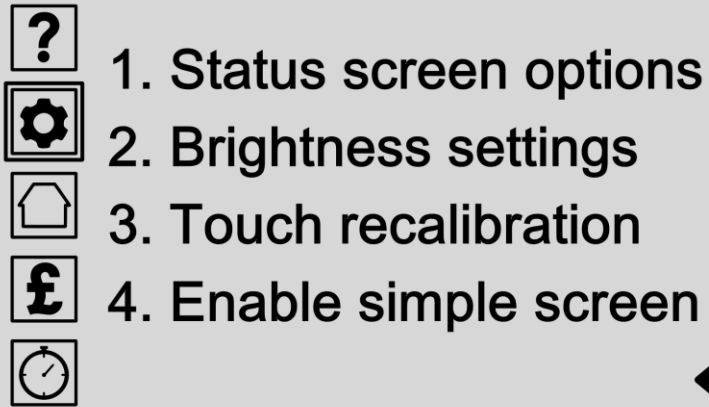
Summer and winter times are updated automatically. If necessary you can manually adjust the time zone in 1 hour increments by tapping above or below the time zone on screen.

Options:

- **Enter your home country**
Choose from the map your home country.
If supported your country name and the correct time zone will be displayed on screen.
Press the save button to store your entry.
- **Manually change time zone**
Tap the screen above or below the displayed time zone value to increase or decrease in 1 hour increments the current time zone.
Press the save button to store your entry.

Screen Options

INFO: Select an option to adjust

- 
1. Status screen options
 2. Brightness settings
 3. Touch recalibration
 4. Enable simple screen

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

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

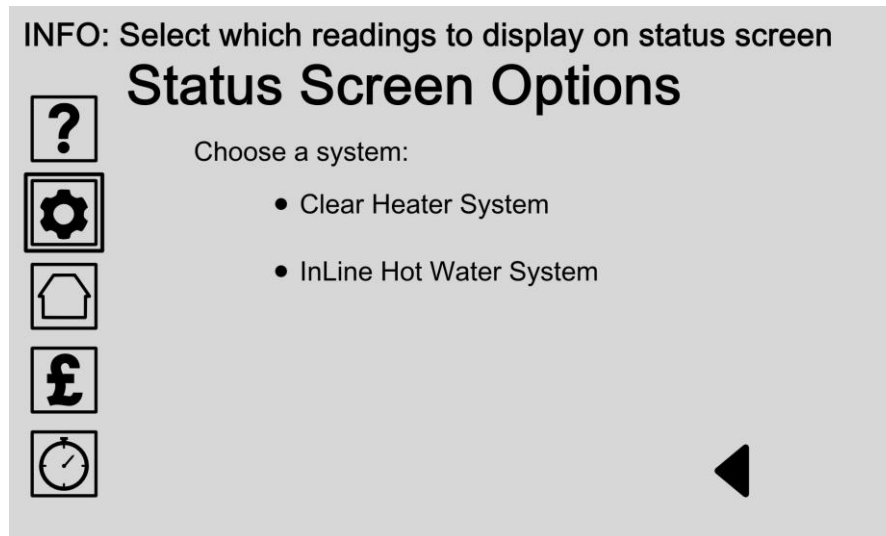
Change the screen brightness and energy saving settings by selecting 'Brightness settings'.

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

Options:

- **Status Screen Options** (Page 18)
Choose which performance data appears on the main status screen.
- **Brightness Settings** (Page 20)
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 22)
'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.
- **Enable simple screen** (Page 60)
The 'homescreen' or 'status screen' can be changed to display a simple screen version rather than the full system status information that is displayed on the standard homescreen.
Choose 'enable' to switch the simple screen on. Once enabled, choose 'disable' to switch simple screen off.

Status Screen Options: Choose a System



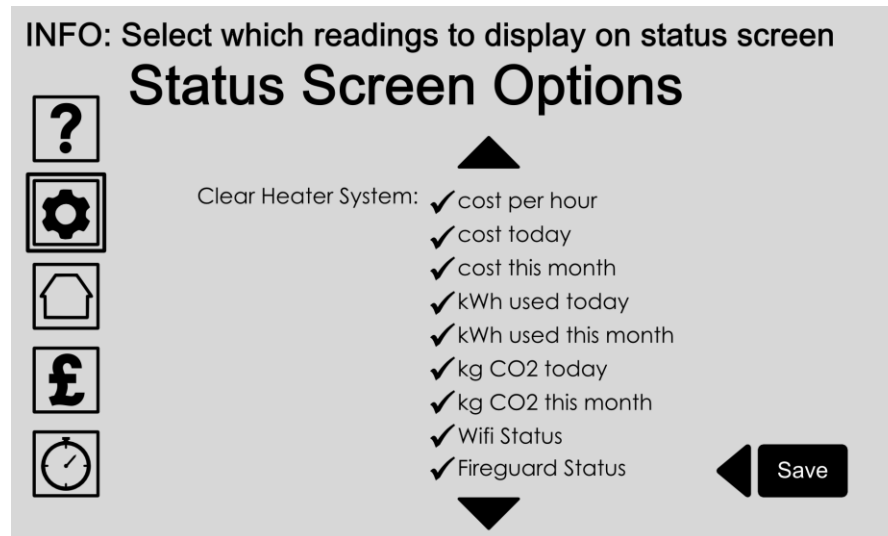
You can choose which performance data appears on the main status screen on your control panel. First choose your heater system from the list. If you only have one heater system available only one option will be listed.

Options:

- **Choose Clear Heater System** (Page 19)
Choose this option to adjust the performance data readings for your Clear Heater System (if installed).
- **Choose InLine Hot Water System**
Choose this option to adjust the performance data readings for your InLine Hot Water System (if installed).

All InLine Hot Water System settings are described in more detail in a separate user guide available via our website.

Status Screen Options: Choose Readings



Options:

- **Choose your readings**

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

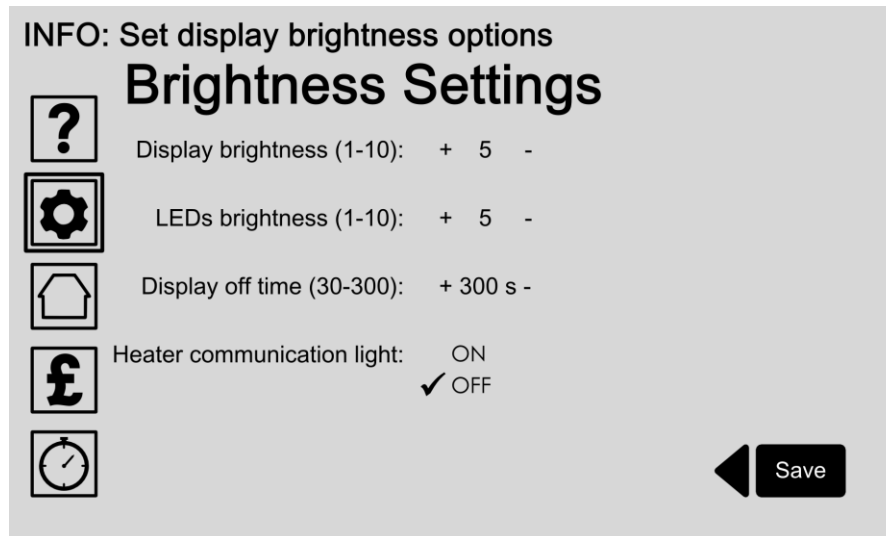
Touch once to select or again to unselect. Selected items will display a tick next to the item.

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.

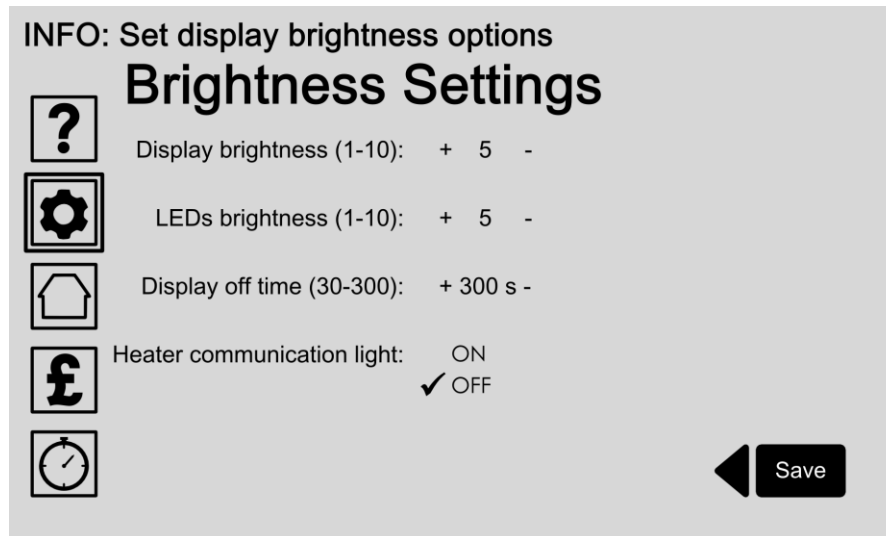
The control panel has three blue LEDs that switch on when the control panel goes into sleep mode. Sleep mode is the energy saving function of the control panel. In sleep mode the main display screen dims to black. You can change how long (in seconds) the display is active before switching off into sleep 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** (Page 21)

Brightness Settings - Heater Communication Light



Each Clear Heater unit has an LED screen in the base unit. The heater communication warning light is located at the lower right of this screen. If the control panel loses communication with one of the heater units, this warning light will flash to alert the user. The heater unit will continue to operate for up to eleven days without communication with the control panel (see page 3).

The cause for a break in communication can be varied, including using products with no Electromagnetic Compatibility (EMC) protection or faulty electric appliances causing interference near to a heater unit. This could include for example cheap generic phone charges, an old refrigerator, old food mixers, faulty power supply units etc.

Options:

- **Edit display brightness level** (Page 20)
- **Edit LED brightness level** (Page 20)
- **Change 'display off time' duration** (Page 20)
- **Edit heater communication light settings**
Touch the on-screen ON or OFF options to turn this function on or off. Press Save to store your entry.



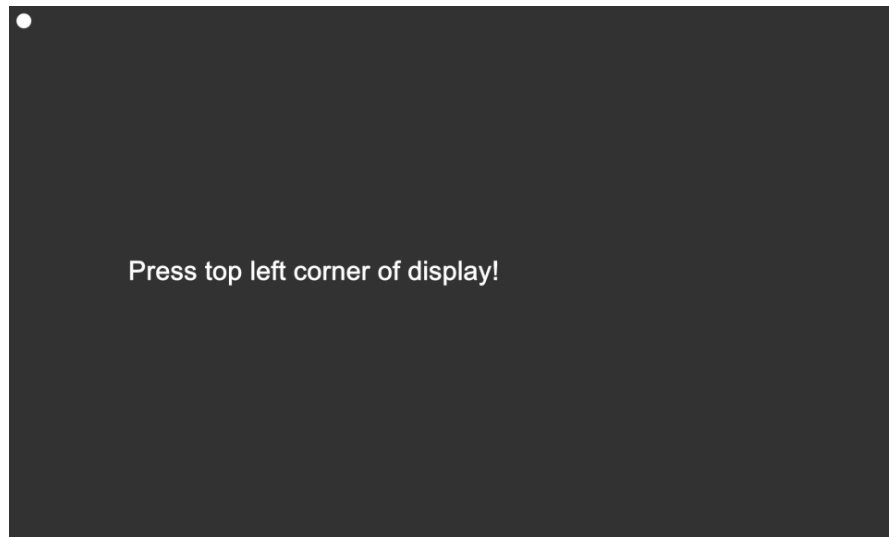
Clear Heater Communication Warning Light

Note: If the flashing light is a disturbance at night for example in a bedroom, the warning light can be switched off via the control panel "Heater communication light" setting.

In this situation the control panel continues to display the problem and the cause of the communication interruption should be investigated.

Remember to switch the communication light function on again after the cause of the communication interruption has ended.

Recalibration



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

Choose this option from the **Screen Options Menu** (Page 17) 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.

Frost & Fireguard Settings

INFO: Enter fire & frostguard temperature & contact no's

Fireguard Settings


















Set fireguard warning temperature: 52°C

Set contact numbers: 1.) 07XXXXXXXXX
2.) 07XXXXXXXXX
3.) 07XXXXXXXXX
4.) 07XXXXXXXXX

Fireguard System: ☒ ON
OFF

Activate Frostguard: ☒ ON
OFF



Fireguard is a safety feature intended to work in addition to standard smoke and fire alarms and not as the only fire warning device. If a CHS unit detects a temperature in your room higher than expected the control panel will signal a warning. When your control panel is connected to the internet it will also call up to four telephone numbers to warn you of a possible fire. You can set the warning temperature to any value above 50°C (122 °F). We recommend 51°C (124 °F).

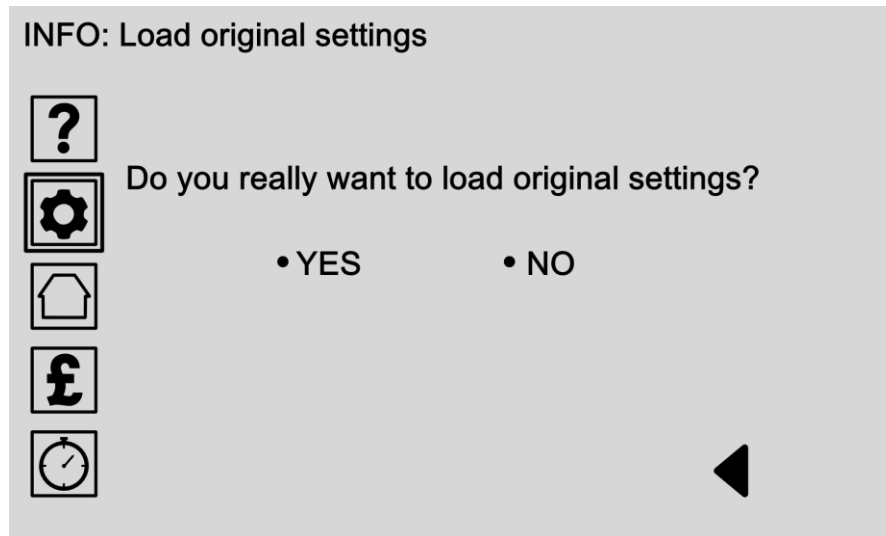
Frostguard turns on a heater in any room if the room temperature falls below 3°C regardless of the individual heater settings. Frostguard will be prevented if heating goes beyond the spend limits set by the user.

Options:

- **Set Fireguard warning temperature**
Select this option by touching the screen and enter the temperature figure using the keypad. Press the save button to store your entry.
- **Set contact numbers**
You may enter up to four contact numbers in the list. In the situation of a Fireguard warning, these numbers will be automatically called and relayed a standard voice message warning you of the potential fire risk.

Touch each list item on the screen and type the number using the keypad. Press the save button to store your entry.
- **Turn Fireguard function on or off**
Touch ON or OFF to turn this function on or off. Press the save button to store your entry.
- **Turn Frostguard on or off**
Touch ON or OFF to turn this function on or off. Press the save button to store your entry.

Load Original Settings



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

This does not affect any safety parameters which are not user accessible.

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.

Clear Heater System Settings

INFO: Select an option to adjust



1. Complete system



2. Adjust zones



3. Adjust heaters



4. Link heaters



5. Adjust heat-up mode

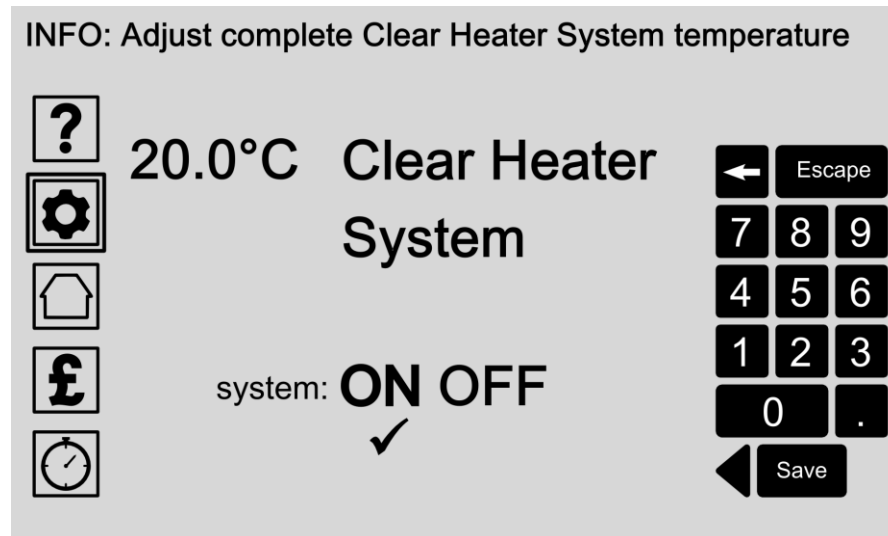
6. Heater surface temp. ◀

Access all your Clear Heater System settings from this menu. Use the arrows to scroll through the list and select an option to adjust.

Options:

- **Adjust complete system** (Page 26)
Adjust the temperature of the whole system or turn the system on or off.
- **Adjust zones** (Page 27)
A zone is a group of heater units with the same settings. This makes it easy to adjust the temperature of multiple rooms together.
- **Adjust heaters** (Page 34)
Heater units can be set to operate individually.
- **Link heaters** (Page 40)
Heater units can be linked to operate together as one unit. This is useful when you have a large room for example that has a higher heating requirement.
- **Adjust heat-up mode** (Page 45)
The normal surface temperature of a heater unit during heat-up mode is 90°C (194 °F). Increase this to complete the heat-up mode faster, or reduce it when a lower temperature is preferred.
- **Adjust heater surface temperature** (Page 50)
The normal surface temperature of a heater unit during operation is 70°C (194 °F). You can change this for your own heating environment; a lower temperature in a child's bedroom for example.

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 Clear Heater System On or Off**
Select ON or OFF to turn the complete heater system on or off. Press the save button to store your entry.

The complete heater system can be given one temperature setting to save you time. 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 heating for you.

Adjust Zones



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

For example, you could choose to heat all bedrooms with the same settings, saving you time when making adjustments.

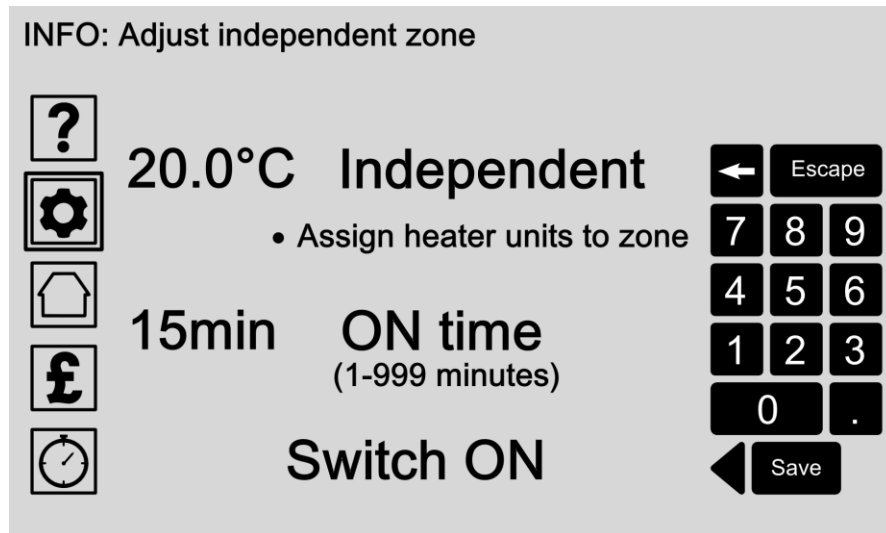
Use the Independent Zone for spaces that you don't heat very often; a spare bedroom or a conservatory in winter for example. This zone can be switched on manually via the Control Panel only when you need it. Scroll through the list to select an existing zone to adjust or press 'Add new zone' to add a new zone to the system.

Options:

- **Adjust the independent zone** (Page 28)
Choose this pre-programmed Independent Zone to be able to:
 - assign heater units to this zone (Page 28)
 - adjust the temperature (Page 28)
 - switch zone heaters ON (Page 28) and OFF (Page 29)
- **Adjust an existing zone** (Page 30)
Choose a zone name from the list of existing zones to be able to:
 - edit the zone name and temperature (Page 30)
 - assign heater units to the zone (Page 32)
 - delete the zone from the system (Page 33)

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 31)
Select this option to manually add a new zone to the system.

Adjust Independent Zone



The Independent Zone is pre-programmed into your zone list and is intended for spaces that you don't heat very often; an infrequently used spare bedroom or a conservatory in winter for example.

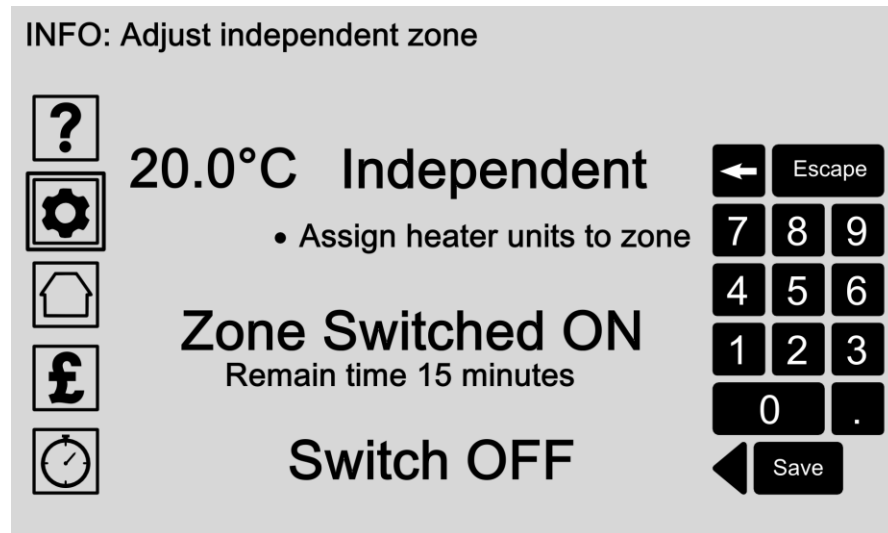
You can assign heater units to this zone just like any other zone, but those heaters will only switch on when and for how long you choose.

Edit the ON time duration in minutes and turn the Independent Zone on by using the control panel touch screen options on this display.

Options:

- **Adjust zone temperature**
Touch the screen and type the required temperature using the keypad. Press the save button to store your entry.
- **Assign heater units to zone** (Page 32)
Select this option to assign heater units to this zone.
- **Adjust ON time duration**
Touch the screen and type the required ON time duration using the keypad. You can choose between 1 and 999 minutes. Press the save button to store your entry.
- **Switch Independent Zone ON**
Touch this screen option to switch the Independent Zone on. The display screen will then change to show the remaining ON time and give you the option to switch the Independent Zone off (Page 29).

Independent Zone Switched ON



When the Independent Zone is switched on, all assigned heater units will heat this zone to the required temperature.

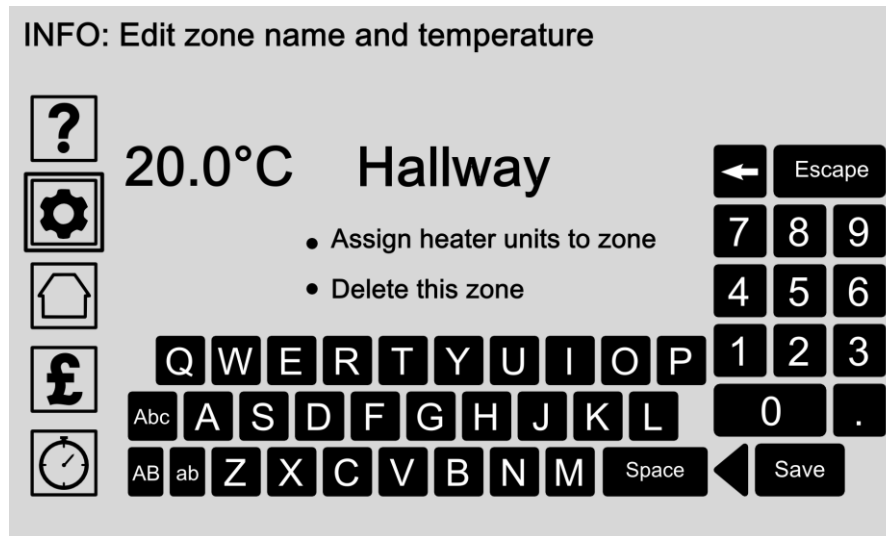
The remaining time is displayed as a countdown in minutes so you know how long the zone will continue to heat. The Independent Zone can be switched ON or OFF at any time using the touch screen options.

The current monthly cost of running the Independent zone is included in the total costs, but can also be displayed separately on the Status Screen (Page 59) by adding the 'I-Zone cost' option from the Status Screen Options menu (Page 19).

Options:

- **Adjust zone temperature**
Touch the screen and type the required temperature using the keypad. Press the save button to store your entry.
- **Assign heater units to zone** (Page 32)
Select this option to assign heater units to this zone.
- **Switch Independent Zone OFF**
Switching the Independent Zone off will change the display screen on your Control Panel back to show the Adjust Independent Zone settings with the option to switch the Independent Zone back on (Page 28).

Edit Zone Name & Temperature



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

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 heater units to zone** (Page 32)
Heater units can be assigned to a zone by selecting this option.
- **Delete this zone** (Page 33)
Zones can be deleted from the system by selecting this option. Only the zone will be deleted and not the individual heater units. You will be asked to confirm your selection on the next screen.

Add New Zone

INFO: Edit zone name and temperature

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New Zone

- Assign heater units to zone
- Delete this zone

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Save

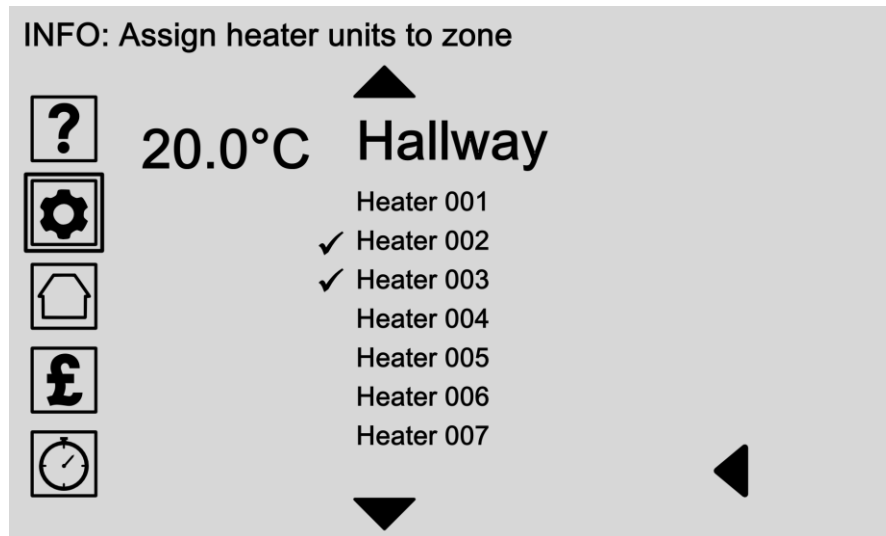
Give each zone a unique name and temperature by entering the details with the keypad.

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 heater units to zone** (Page 32)
Heater units can be assigned to a zone by selecting this option.
- **Delete this zone** (Page 33)
Zones can be deleted from the system by selecting this option. Only the zone will be deleted and not the individual heater units. You will be asked to confirm your selection on the next screen.

Assign Heater Units to Zone



Options:

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

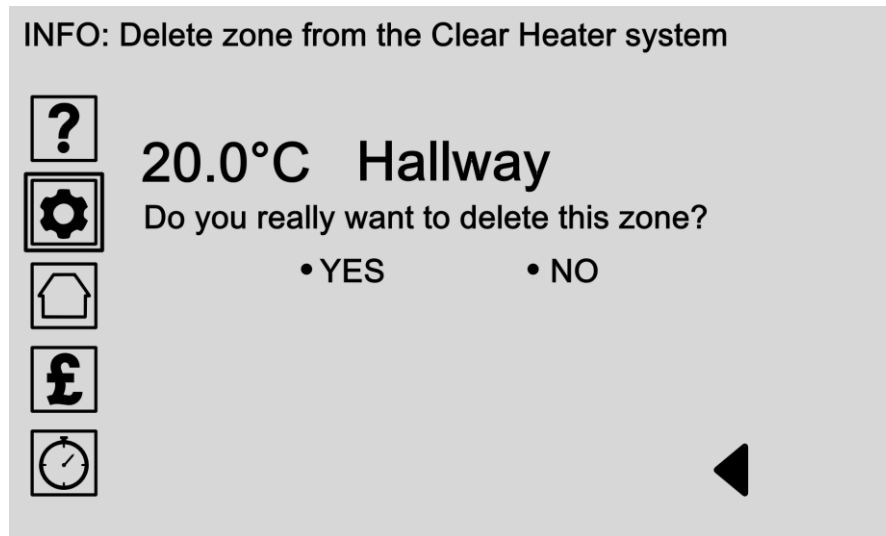
Scroll up and down the list with the arrows.
Touch a heater name once to select or again to unselect. Selected heater units will display a tick next to the name.

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

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

Note: Heater units can only be assigned to one zone at a time.

Delete Zone



Options:

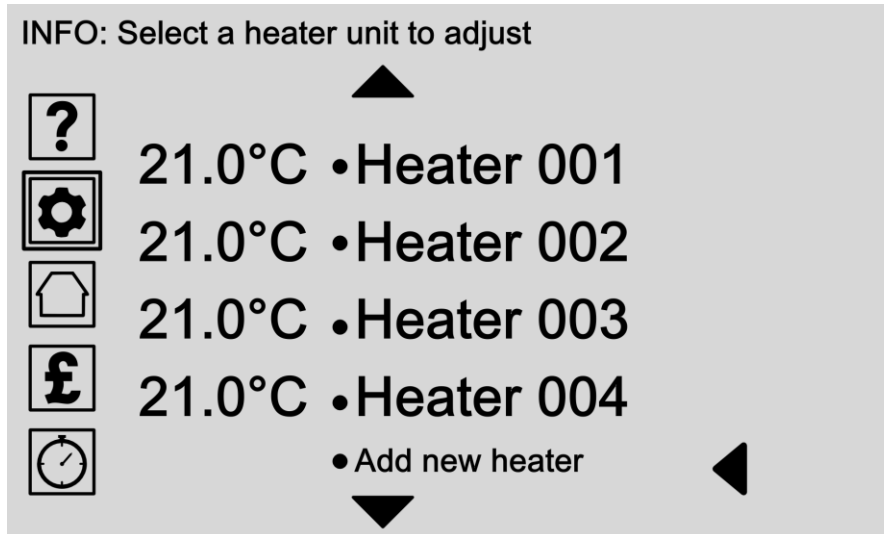
- **Select YES**
Choose YES to delete this zone from the system.

Warning: This action cannot be reversed. Only the zone will be deleted and not the individual 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 heater units.

Confirm your choice with yes or no.

Adjust Heaters



Heater units can be set to operate individually, in a zone or linked together with other heaters to work as one unit.

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

Options:

- **Adjust an existing heater** (Page 38)
Choose a heater name from the list of existing heater units to be able to:
 - edit the name and temperature (Page 38)
 - assign the heater unit to a zone (Page 32)
 - delete the heater unit from the system (Page 39)Use the scroll arrows to move up and down the list or select the back arrow to go back one screen.
- **Add new heater** (Page 35)
Select this option to manually add a new heater to the system.

Add New Heater

INFO: Add new heater to the system

Enter Heater ID:

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AB ab Z X C V B N M Space ◀ Save

Each 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**

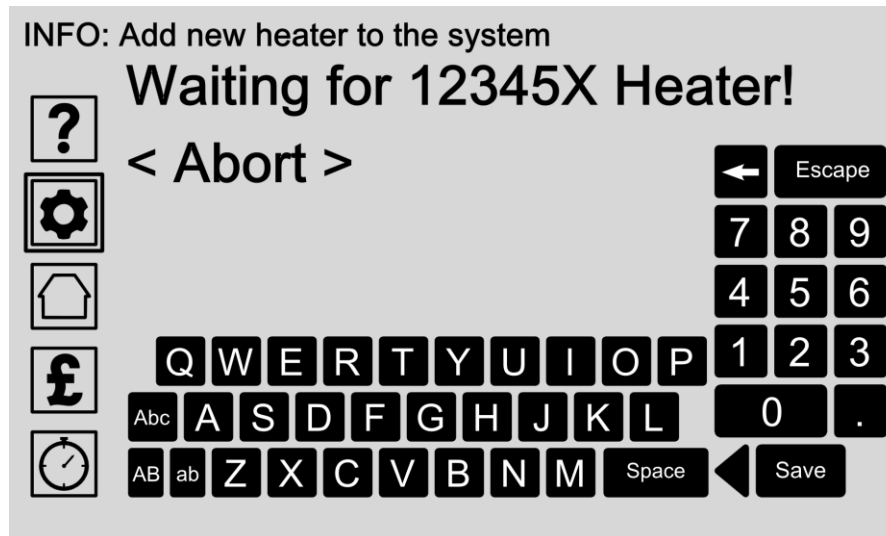
Touch the screen and enter the heater identification number using the keypad. The ID number can be found on the underside of the heater base.

Press the save button to store your entry.

Wait for the control panel to find and connect to the new heater unit on the next screen:

Connecting to new heater unit (Page 36)

Add New Heater: Waiting



Each heater unit has a unique identification number on the underside of the base. Once you enter this number on the previous screen (Page 35), the control panel attempts to connect the new heater unit automatically.

Options:

- **Wait while connecting to new heater unit**
After the unique ID number is entered on the previous screen (Page 35) wait for the control panel to connect to the new heater unit.
- **Abort**
Cancel the operation by pressing the abort button.

Add New Heater: Confirmation



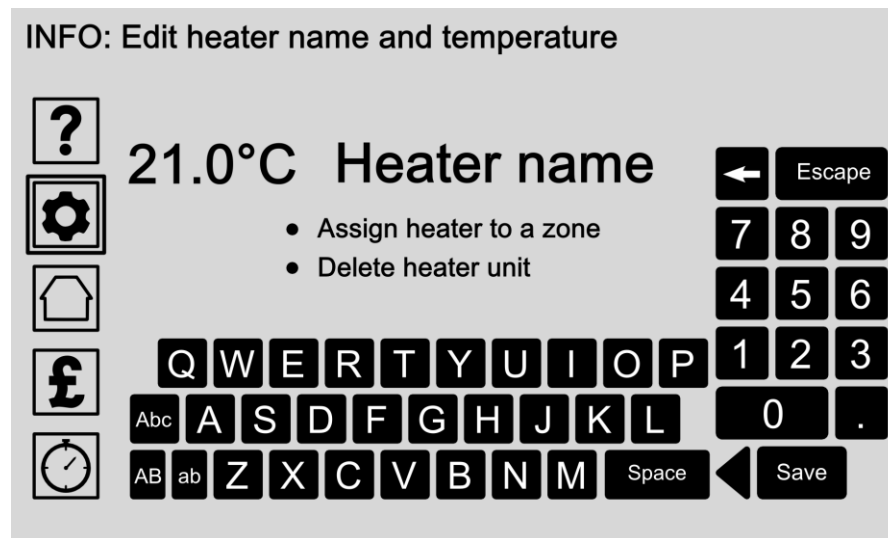
Options:

- **Adjust Heater** (Page 34)
When a 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 heater unit to a zone, or delete the heater unit from the system.
- **Add New** (Page 35)
Choose this option to repeat the process and add an additional new heater unit.

Each 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 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 new heater unit.

Edit Heater Name & Temperature



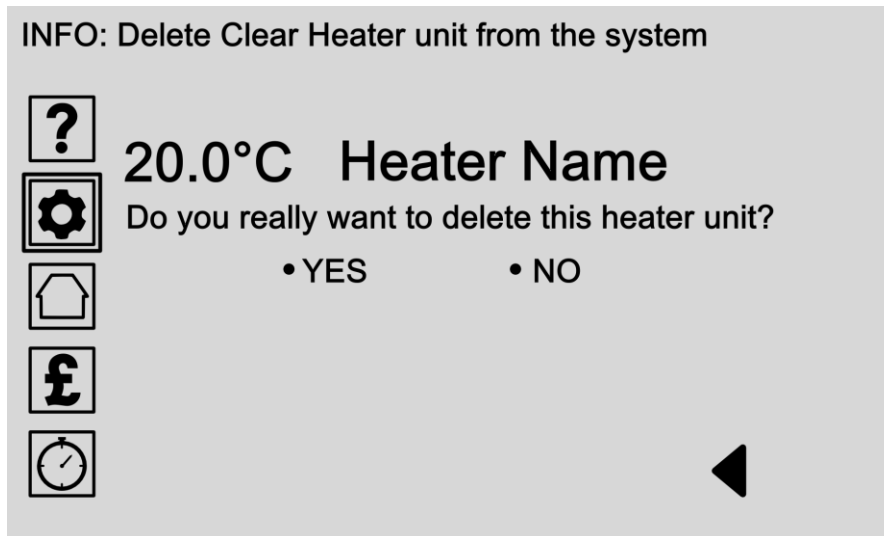
Give each heater unit a unique name and temperature by entering the details with the keypad.

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

Options:

- **Edit 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 heater to a zone** (Page 32)
The heater unit can be assigned to a zone by selecting this option.
- **Delete heater unit** (Page 39)
Heater units can be deleted from the system by selecting this option. You will be asked to confirm your selection on the next screen. Heater units can always be added again after you delete it.

Delete Heater Unit



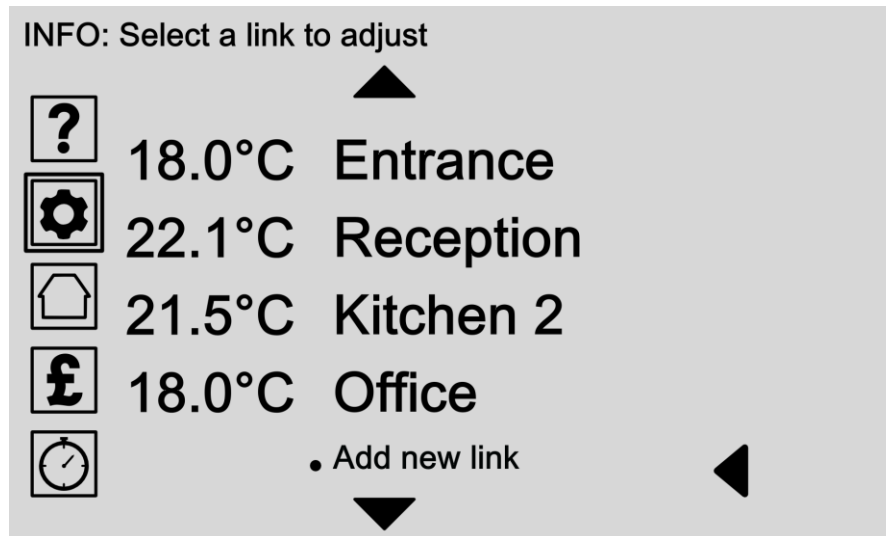
Heater units can be deleted from the system. Confirm your choice on this screen by selecting YES or NO. If you make a mistake, a heater unit can always be added again by selecting the '**add new heater**' option on page 34.

Options:

- **Select YES**
Choose YES to delete this heater unit from the system.

Warning: This action cannot be reversed. Only this 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.

Link Heaters



Heater units can be linked to operate together as one unit within a room. This can be useful when you have a large room that has a higher heating requirement. Linked heater units will turn on and off together to maintain the desired temperature.

Linked heaters differ to zones in that zones can be several rooms with the same desired temperature. Each heater unit within a zone can turn on and off independently to maintain the desired zone temperature.

Linked heater units can still operate within a zone by adding the individual heater units to a zone.

Options:

- **Adjust link** (Page 41)
Choose a link name from the list of existing links to be able to:
 - edit the link name and temperature (Page 41)
 - modify the link between heater units by adding or removing heater units to/ from a link (Page 32)
 - delete a link between heater units (Page 44)Use the scroll arrows to move up and down the list or select the back arrow to go back one screen.
- **Add new link** (Page 42)
Select this option to manually add a new link to the system and connect several heater units together to operate as one unit.

Edit Name & Temperature of Link



Give linked heaters a unique name and temperature by entering the details with the keypad.

Linked heaters can also be modified by adding or removing heater units or a link can be deleted from the system completely.

Options:

- **Edit name and temperature of link**
Touch the screen and type the name and temperature details using the keypad.
Press the save button to store your entry.
- **Modify link** (Page 43)
Add or remove heater units to or from the named link.
- **Delete this link** (Page 44)
Links between heater units can be deleted from the system. You will be asked to confirm your selection on the next screen.
Only the link between heater units will be deleted and not the individual heater units.

Add New Link

INFO: Edit name and temperature of link

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New Link

- Modify link
- Delete this link

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Give your new link a unique name and temperature by entering the details with the keypad.

Linked heaters can also be modified by adding or removing heater units or a link can be deleted from the system.

Options:

- **Edit name and temperature of new link**
Touch the screen and type the name and temperature details using the keypad.
Press the save button to store your entry.
- **Modify link** (Page 43)
Add or remove heater units to or from the named link.
- **Delete this link** (Page 44)
Links between heater units can be deleted from the system. You will be asked to confirm your selection on the next screen.
Only the link between heater units will be deleted and not the individual heater units.

Modify Link



Choose which heater units should be linked to operate together as one unit by selecting the heater names from the list. All linked heater units then operate as if they were one unit.

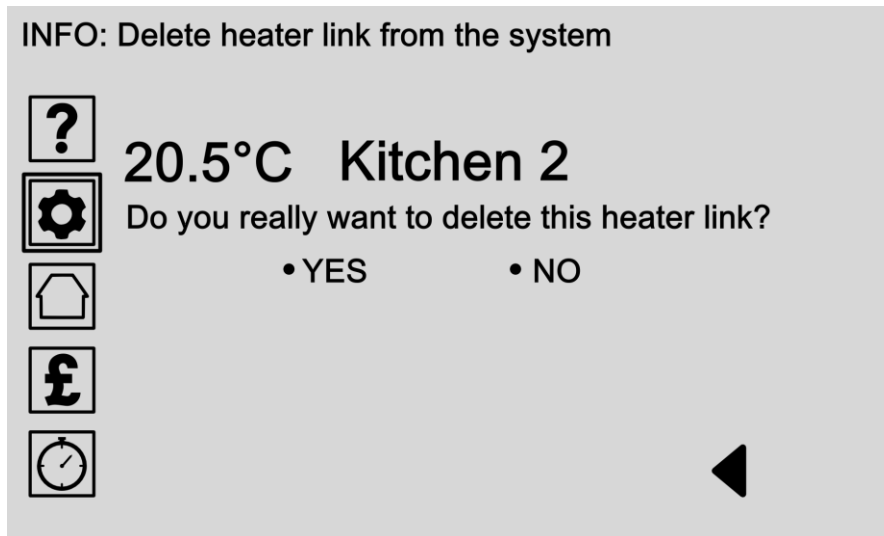
Selected heater units will display a tick next to the name.

Options:

- **Select heater units to link together**
Select individual heater units from the list of available heaters to add them to the named link. You can choose multiple heater units to operate with each named link.

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

Delete Link



Options:

- **Select YES**
Choose YES to delete this named link from the system.


Warning: This action cannot be reversed. Only the named link will be deleted and not the individual heater units.
- **Select NO**
Choose NO to cancel this action and return to the previous screen.

Named links can be deleted from the system. Only the link between heater units will be deleted and not the individual heater units.

Confirm your choice with yes or no.

Adjust Heat-up Mode

INFO: Adjust Clear Heater heat-up mode adjustment

| | | | |
|---|-------------|----------------------------|---|
|  | 60°C | Surface temperature | <div><div>←</div>Escape</div> <div>789</div> <div>456</div> <div>123</div> <div>0.</div> <div>◀Save</div> |
|---|-------------|----------------------------|---|

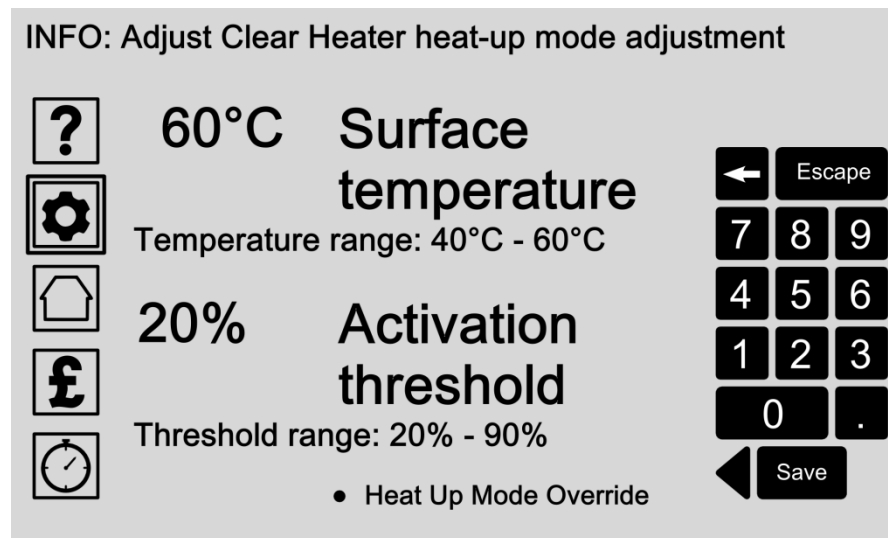
Options:

- **Adjust surface temperature** (Page 46)
Adjust the surface temperature of the heater units during heat-up mode.
- **Adjust activation threshold** (Page 47)
Change the frequency when heat-up mode is activated.
- **Heat-up mode override** (Page 48)
Override Heat-up mode for the next 11 days.

Heat-up mode occurs when the heater units are first switched on or if any part of the system shows a temperature lower than the target temperature.

The default threshold is if 20% of the system is below 0.9°C of target temperature. All heaters then heat up to compensate for and quickly achieve optimal temperature but this does use more energy.

Heat-up Mode - Adjust Surface Temperature



Options:

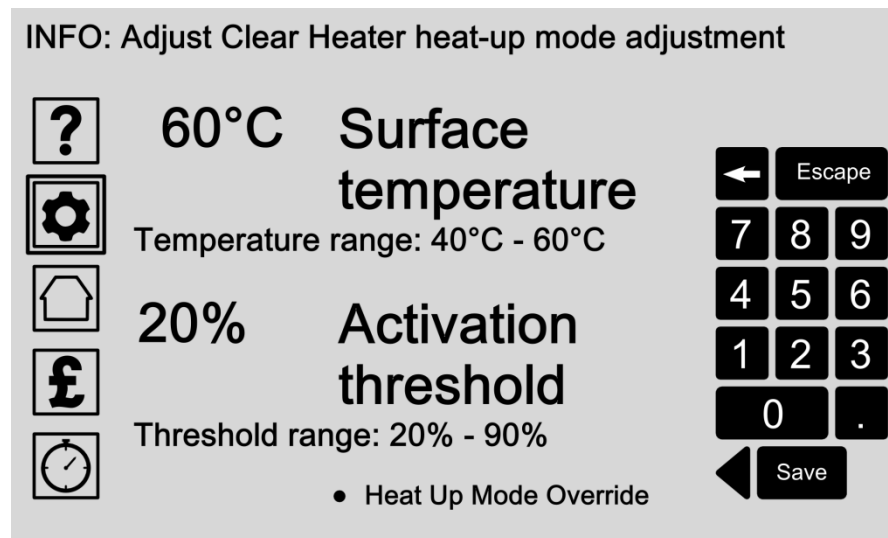
- **Increase the heat-up mode surface temperature**
Touch the screen reading and enter the preferred surface temperature using the keypad.
The maximum temperature is 60°C (140 °F).
Press the save button to store your entry.
- **Decrease the heat-up mode surface temperature**
Touch the screen reading and enter the preferred surface temperature using the keypad.
The minimum temperature is 40°C (104 °F).
Press the save button to store your entry.

The normal surface temperature of a heater unit during heat-up mode is 60°C (140 °F).

Increasing the normal surface temperature will complete the heat-up mode process faster.

Decreasing the normal surface temperature during heat-up may be considered safer where lower surface temperatures are preferred; in a child's bedroom or with elderly or vulnerable people for example.

Heat-up Mode - Adjust Activation Threshold



If for example you have a heater unit located in an indoor porch area where the outside door is opened frequently, cold outside air could activate the heat-up mode more often for the whole system.

The threshold setting may be adjusted here or alternatively you may override Heat-up mode for the next eleven days (page 48).

Note: This product is for indoor use only

Options:

- **Increase the activation threshold**

Touch the screen reading and enter the preferred threshold value using the keypad.

A higher value (e.g. 90%) will reduce the frequency of heat-up mode activation and the affected heater units will heat up gradually using less energy.

Press the save button to store your entry.

- **Decrease the activation threshold**

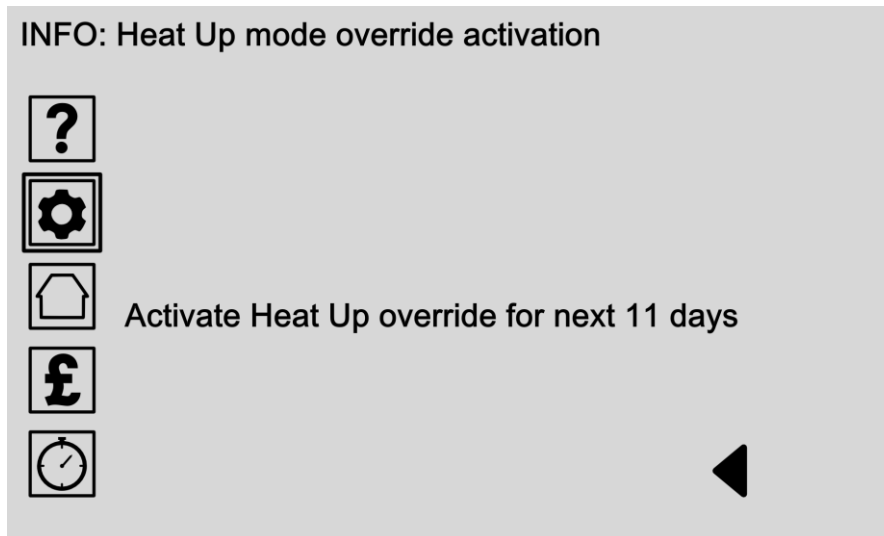
Touch the screen reading and enter the preferred threshold value using the keypad.

A lower value (e.g. 20%) will increase the frequency of heat-up mode activation and all heater units on the system will heat up quickly using more energy but achieve optimal temperature in less time.

Press the save button to store your entry.

Tip: You may also override Heat-up mode to switch off the function for the next eleven days (page 48).

Heat-up Mode Override - Activation



Heat Up mode occurs when the heater units are first switched on or if any part of the system shows a temperature lower than the target temperature. The default threshold is if 20% of the system is below 0.9°C of target temperature. All heaters then heat up to compensate for and quickly achieve optimal temperature but this does use more energy.

If for example you have a heater unit located in an indoor porch area where the outside door is opened frequently, cold outside air could activate the heat-up mode more often for the whole system. You may override (or switch off) Heat Up mode for eleven days to prevent the heaters entering heat up mode.

Note: This product is for indoor use only

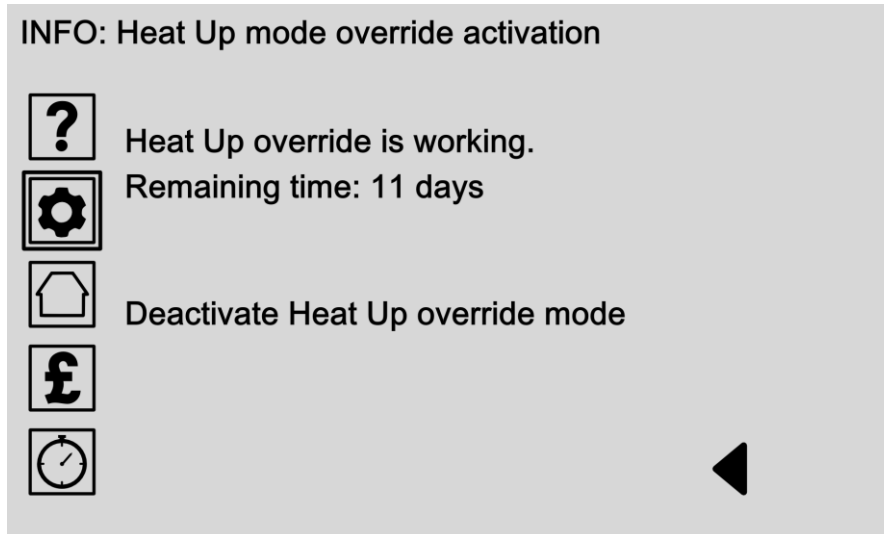
Options:

- **Activate Heat Up override for next 11 days**
Touch the screen to activate Heat-up mode override for the next 11 days. This effectively prevents heater units from entering Heat-up mode. They will though continue to heat as necessary to achieve the target room temperature.

When Heat Up override mode is working the remaining days of the override function are displayed together with the option to deactivate it (Page 49). Deactivation puts the system back into its normal state.

Tip: The threshold setting may also be adjusted to change the frequency of Heat Up mode activation (Page 47).

Heat-Up Mode Override - Deactivate



Options:

- **Deactivate Heat Up override**
When Heat Up override mode is working the remaining days of the override function are displayed together with the option to deactivate it.

Touch the screen to deactivate Heat-up mode override. This puts the system back into its normal state.

Heat Up mode occurs when the heater units are first switched on or if any part of the system shows a temperature lower than the target temperature. The default threshold is if 20% of the system is below 0.9°C of target temperature. All heaters then heat up to compensate for and quickly achieve optimal temperature but this does use more energy.

If for example you have a heater unit located in an indoor porch area where the outside door is opened frequently, cold outside air could activate the heat-up mode more often for the whole system. You may override (or switch off) Heat Up mode for eleven days to prevent the heaters entering heat up mode.

Note: This product is for indoor use only

Tip: The threshold setting may also be adjusted to change the frequency of Heat Up mode activation (Page 47).

Heater Surface Temperature



The normal surface temperature of a heater unit during operation is 60°C (140 °F).

Increase the normal surface temperature in a particularly cold environment.

Decrease the normal surface temperature where it may be considered safer to have lower surface temperatures; in a child's bedroom or with elderly or vulnerable people for example. Individual heater settings can be changed by selecting 'Individual settings' for heaters that may require a surface temperature higher or lower than the global setting.

Options:

- **Increase the normal surface temperature**
Touch the screen reading and type the preferred surface temperature using the keypad.
The maximum temperature is 60°C (140 °F).
Press the save button to store your entry.
- **Decrease the normal surface temperature**
Touch the screen reading and type the preferred surface temperature using the keypad.
The minimum temperature is 40°C (104 °F).
Press the save button to store your entry.
- **Individual settings** (page 51)
Select individual settings to change the surface temperature of individual Clear Heater panels rather than the whole system. This may be useful in a child's bedroom for example to minimise the risk of hot surfaces.

Heater Surface Temperature – Individual Settings



Options:

- **Increase the normal surface temperature**
Touch the screen reading and type the preferred surface temperature using the keypad. The maximum temperature is 60°C (140 °F). Press the save button to store your entry.
- **Decrease the normal surface temperature**
Touch the screen reading and type the preferred surface temperature using the keypad. The minimum temperature is 40°C (104 °F). Press the save button to store your entry.

The normal surface temperature of a heater unit during operation is 60°C (140 °F).

Increase the normal surface temperature in a particularly cold environment or decrease the normal surface temperature where it may be considered safer to have lower surface temperatures; in a child's bedroom or with elderly or vulnerable people for example.

You can change the global settings for all heater panels on the previous screen (page 50).

Clear Heater Clothes Dryer

INFO: Select a drying option to adjust



1. Select Clear Heater

2. Adjust drying Time

3. Start Drying

Dryer is off. (15 minutes)



WARNING: Please read Safety Section.

ATTENTION: Veuillez lire la section sécurité.

AVISO: Por favor, lea el apartado de seguridad.



WARNING: Do not cover.

AVERTISSEMENT : Ne pas couvrir.

ADVERTENCIA: No cubrir.

Note: This product has not been evaluated for safety by any NRTL facility.

The Clear Heater System has an available clothes dryer unit specially designed to take advantage of the super-fast drying ability of the heater units.

Use the control panel settings to select which Clear Heater unit to use and adjust the drying time in 15 minute intervals.

The status of the dryer function is displayed at the bottom of the screen.

Note: The clothes dryer unit will be available in 2016

Options:

- **Select Clear Heater** (Page 53)
Choose this option to select which Clear Heater unit you want to use with the clothes dryer unit.
- **Adjust drying time** (Page 54)
Choose this option to adjust the drying time in 15 minute intervals.
- **Start drying** (Page 55)
Choose this option to start the drying process.
The drying status and time remaining are displayed at the bottom of the screen.

Select Clear Heater



WARNING: Please read Safety Section.

ATTENTION: Veuillez lire la section sécurité.

AVISO: Por favor, lea el apartado de seguridad.



WARNING: Do not cover.

AVERTISSEMENT : Ne pas couvrir.

ADVERTENCIA: No cubrir.

Note: This product has not been evaluated for safety by any NRTL facility.

Choose from the list of available heater units which one you want to use with the special clothes dryer unit. The chosen heater unit is highlighted with a tick.

Note: The clothes dryer unit will be available in 2016

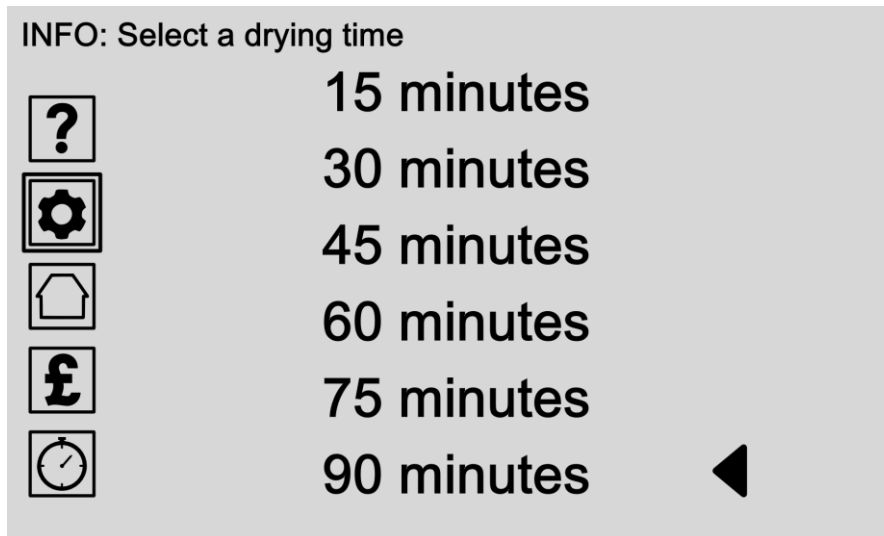
Options:

- **Select a heater for clothes dryer function**

Touch the screen to select your preferred heater unit to be used for drying clothes.

A tick confirms your selection. Press the back arrow to return to the Clothes Dryer menu screen (Page 52).

Adjust Drying Time



WARNING: Please read Safety Section.

ATTENTION: Veuillez lire la section sécurité.

AVISO: Por favor, lea el apartado de seguridad.



WARNING: Do not cover.

AVERTISSEMENT : Ne pas couvrir.

ADVERTENCIA: No cubrir.

Note: This product has not been evaluated for safety by any NRTL facility.

From this screen you can choose how long you want to dry your clothes in front of your chosen heater unit.

Note: The clothes dryer unit will be available in 2016

Options:

- **Select a drying time**
Touch the screen to select how long you want the heater unit to dry your clothes.

Once selected, the screen switches back to the main Clothes Dryer menu (Page 52) and the status message at the bottom of the screen displays your chosen dryer duration.

Start Drying

INFO: Select a drying option to adjust



1. Select Clear Heater

2. Adjust drying Time

3. Stop Drying

Drying is in progress, 14 minutes left.



WARNING: Please read Safety Section.

ATTENTION: Veuillez lire la section sécurité.

AVISO: Por favor, lea el apartado de seguridad.



WARNING: Do not cover.

AVERTISSEMENT : Ne pas couvrir.

ADVERTENCIA: No cubrir.

Note: This product has not been evaluated for safety by any NRTL facility.

The Clear Heater System has an available clothes dryer unit specially designed to take advantage of the super-fast drying ability of the heater units.

Use the control panel settings to select which Clear Heater unit to use and adjust the drying time in 15 minute intervals.

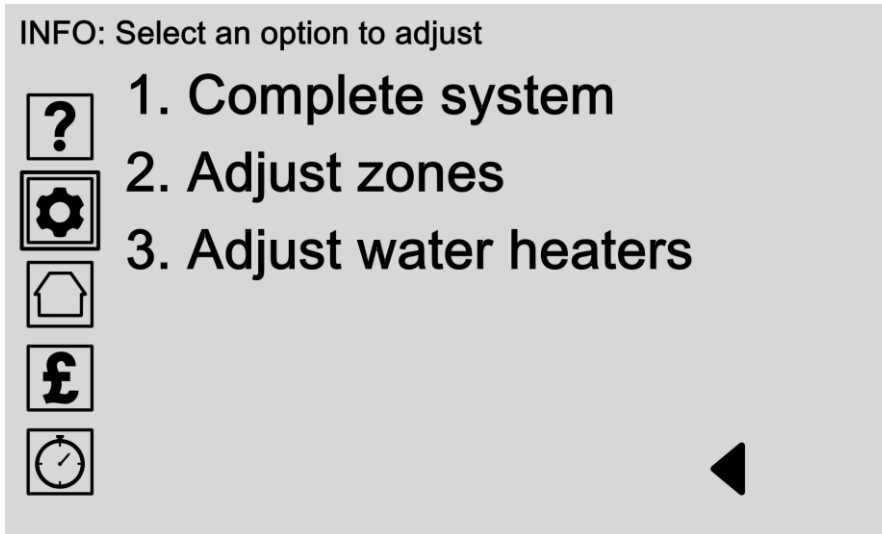
The status of the dryer function is displayed at the bottom of the screen.

Note: The clothes dryer unit will be available in 2016

Options:

- **Select Clear Heater** (Page 53)
Choose this option to select which Clear Heater unit you want to use with the clothes dryer unit.
- **Adjust drying time** (Page 54)
Choose this option to adjust the drying time in 15 minute intervals.
- **Stop drying** (Page 40)
Choose this option to stop the drying process at any point.
The screen then switches back to the main Clothes Dryer menu screen (Page 52) and the status message at the bottom of the screen displays the drying status.

InLine Hot Water System Settings



Options:

- All InLine Hot Water System settings and options are covered in a separate user guide available from our website.

The InLine Hot Water System settings can be adjusted from this screen if you have the system installed and set up. All InLine Hot Water System settings are covered in a separate user guide.

Note: This product has not been evaluated for safety by any NRTL facility.

Restricted Mode Off

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

6. Restricted mode Off ◀

'Restricted Mode' is a safety feature that shuts down the Clear Heater System for one hour if a heater unit detects an unstable power supply.

After 1 hour the system will 'wake up' and check if the power supply is within normal operational parameters before switching the heater units back on. The control panel will report the incident automatically to Logikor if the control panel is connected to the internet.

If when the system 'wakes up' the power supply has not stabilized then it will re-enter restricted mode for a further one hour.

This process will repeat eight times.

On the ninth occurrence the system will stay in restricted mode and await a Logikor engineer or a qualified electrician to check the system for faults. The customer should call either their distributor, Logikor Technical Support or a qualified system engineer for advice.

If the customer lives in an area where they know they have an unstable power supply, for example a remote village or hamlet or an area where the power supply regularly drops out the CHS may frequently enter 'restricted mode'.

If the customer is happy that they or a qualified person has checked the heater units to make sure that there is no visual damage to the heater they can then select option 6 'Restricted mode off' to lift the restriction. This action will display a confirmation message that **"All heaters are enabled"**.

Options:

- **Turn restricted mode off**

Turn off restricted mode only if you are certain that there are no faults on your system.

Logikor strongly advises that the customer does not lift the restriction on a heater unless they check with a qualified CHS engineer first.

Section 3: Status Screen

Select the Status (Home) Icon on your control panel display then turn to page 59.



Section 1:
Help Mode..... (Page 8)



Section 2:
Control Panel & Temperature Settings (Page 10)



Section 3:
Status Screen..... (Page 58)

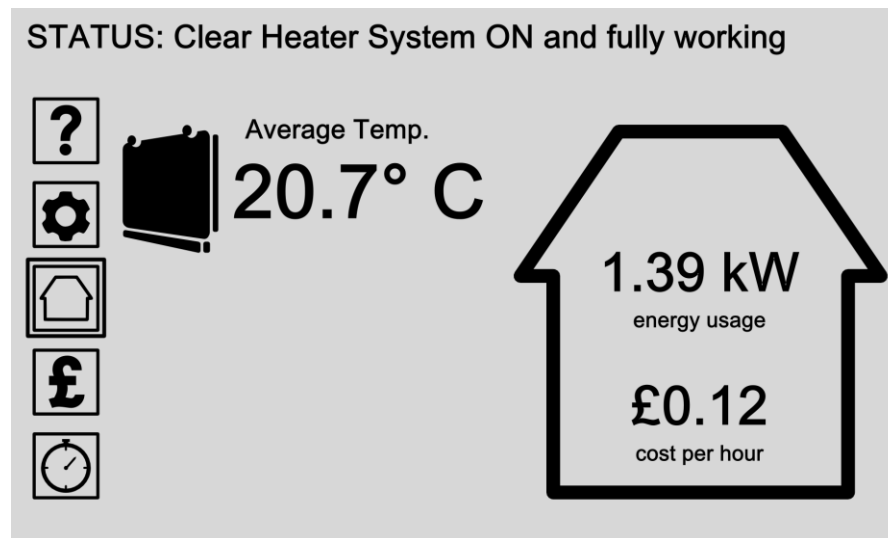


Section 4:
Cost & Energy Settings..... (Page 61)



Section 5:
Timer Settings..... (Page 64)

Status Screen



The status screen displays a summary of your heater system all in one place.

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.

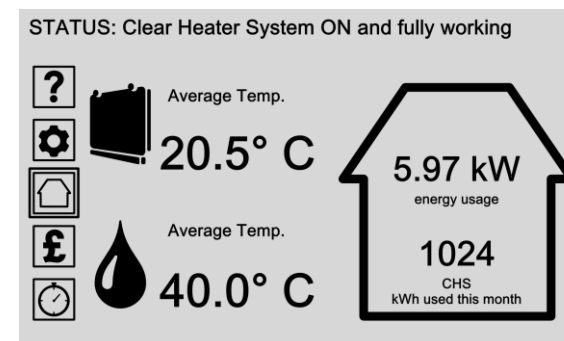
You can choose which status readings are displayed here by pressing the 'Control Panel & Temperature Settings' Cog Icon then choosing Main Settings / Screen Options / Status Screen Options (See page 17).

A simple status screen option is also available (page 60).

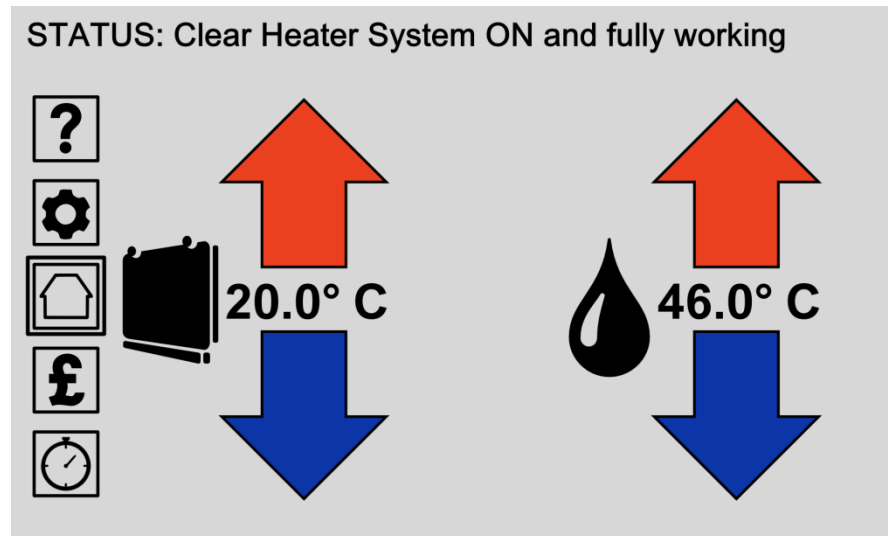
Options:

- Choose a menu icon from the left hand panel to access your settings and preferences.

If you have in addition to your Clear Heater System an InLine Hot Water System installed, your status screen will also display a water drop icon to display the hot water status and settings similar to the screen shown below. The information inside the 'house' area of the screen (see below) changes to display information for each installed system.



Simple Status Screen



Options:

- Choose a menu icon from the left hand panel to access your settings and preferences.
- Press up arrows to increase the temperature of your chosen heater system.
- Press down arrow to reduce the temperature of your chosen heater system.

The simple status screen displays an easy method of adjusting the system temperature of all your installed heater systems in one place. Simply press the arrows up or down for each system.

To enable or disable the simple screen mode please refer to page 17.

You can also choose to disable simple screen mode and display the standard status screen that shows comprehensive information about each of your installed systems instead (See page 59).

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.

Section 4: Cost & Energy Settings

Select the Cost & Energy Settings (Pound) Icon on your control panel display then turn to page 62.



Section 1:
Help Mode..... (Page 8)



Section 2:
Control Panel & Temperature Settings (Page 10)



Section 3:
Status Screen..... (Page 58)



Section 4:
Cost & Energy Settings..... (Page 61)



Section 5:
Timer Settings..... (Page 64)

Cost & Energy Settings

INFO: Select a system to adjust cost & energy targets



1. Clear Heater System

2. InLine Hot Water System



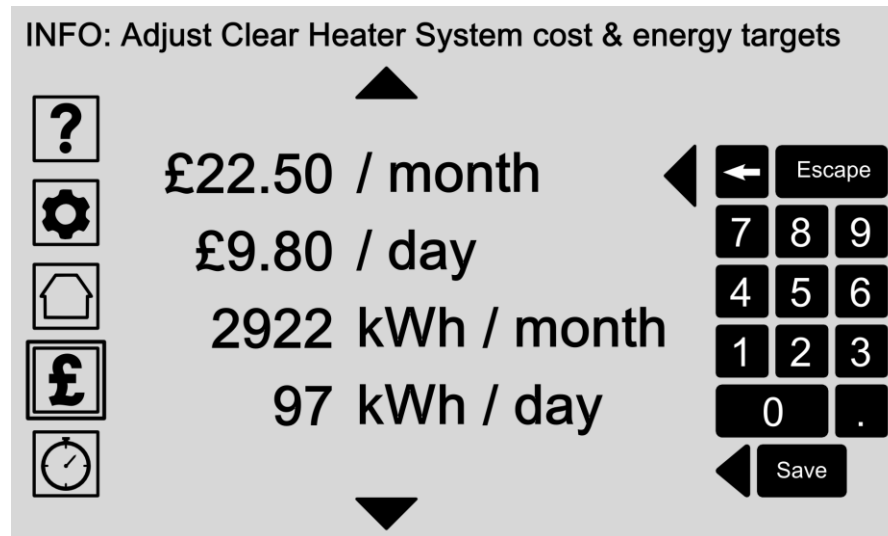
Options:

- **Select Clear Heater System** (Page 63)
Select Clear Heater System to start editing your budget and energy targets.

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.

Additional systems are proposed for the future that will be listed on this screen if available. Please check our website for product updates.

Adjust Cost & Energy Settings



You can set your own cost and energy targets to help keep track of costs and energy usage. Choose a target reading from the list and enter your preferred budget or energy use target with the keypad.

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

Options:

- **Adjust cost targets**
Choose a screen option and enter your preferred cost targets using the keypad. For example, set the cost per day that you want to spend on heating.

Scroll through the list to view the different reading with the up and down arrows. Press the save button to store your entry.
- **Adjust energy targets**
Choose a screen option and enter your preferred energy use targets using the keypad. For example, choose how many kWh per day you wish to use on heating.

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

Section 5: Timer Settings

Select the Timer (Clock) Icon on your control panel display then turn to page 65.



Section 1:
Help Mode..... (Page 8)



Section 2:
Control Panel & Temperature Settings (Page 10)



Section 3:
Status Screen..... (Page 58)



Section 4:
Cost & Energy Settings..... (Page 61)



Section 5:
Timer Settings..... (Page 64)

Timer Settings

INFO: Scheduling of operation disabled



CHS Timer Options:



1. Weekly Settings



2. Graphical View



3. Enable scheduling



It is recommended to leave your Clear Heater System switched on at all times to achieve optimal heating performance and cost savings.

You may prefer to vary the temperature during the day. To do this, schedule your heater system to heat at different temperatures at set times of the day for each day of the week.

If you prefer to switch the system to an 'almost off' state at a particular time, reduce the temperature by 9°C for example and it will in effect turn your heater system off until your room environment cools down by 9°C. At that point the heater system will resume heating to retain the new lower temperature.

Options:

- **Weekly settings** (Page 66)
Schedule your heater system on a day by day basis to increase or reduce the temperature of the whole heater system at different times of day.

This is useful if for example you prefer a cooler temperature at night or a warmer temperature at specific times of day.

- **Graphical view** (Page 69)
View your weekly schedule settings in an easy to view graphical form.
- **Enable / disable scheduling** (Page 70)
Turn weekly scheduling on or off from the main timer menu screen by pressing the screen option once to enable or again to disable.

Enabling scheduling operates your heater system according to your weekly schedule settings.

Disabling scheduling operates your heater system according to your current (normal) heater settings.

The scheduling status (either enabled or disabled) is displayed in the INFO message at the top of the screen.

Weekly Settings



For each day of the week you can add scheduled events which increase or lower the temperature of the whole heater system by a set amount.

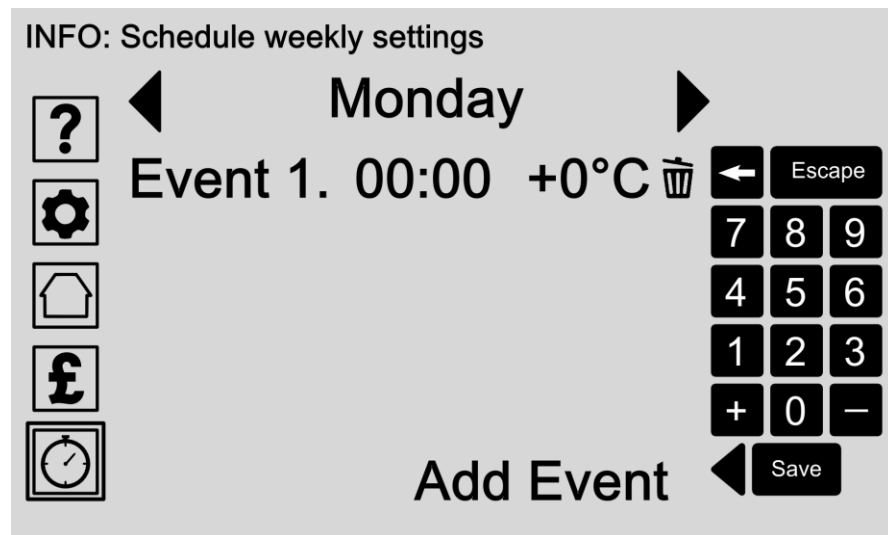
This is useful if for example you prefer a cooler temperature at night or a warmer temperature at specific times of day.

If you prefer to switch the system to an 'almost off' state at a particular time, reduce the temperature by 9°C for example and it will in effect turn your heater system off until your room environment cools down by 9°C. At that point the heater system will resume heating to retain the new lower temperature.

Options:

- **Scroll through the days**
Press the left and right scroll arrows to scroll through the days of the week for which you want to add or adjust a scheduled event.
 - **Add event** (Page 67)
Add a new scheduled event for your chosen day. An event is an increase or decrease in temperature for your whole heater system.
- A maximum of four events are possible for each day.

Add Event



Add your scheduled events for each day to increase or decrease the temperature for your whole heater system at a particular time. A maximum of four events are possible for each day.

Each event means that the heater system will operate at the new temperature change until the next scheduled event.

Adding an event with 0° will return the heater system back to its normal state.

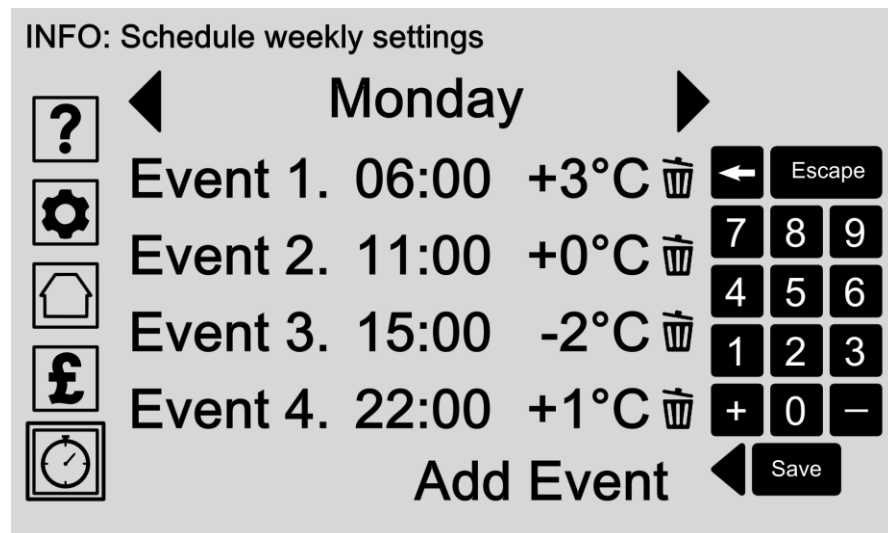
An event of -9°C for example will in effect switch the heater system off until the room environment cools down by 9°C. At that point heating will resume at the new lower temperature.

Options:

- **Scroll through days**
Press the left and right scroll arrows to scroll through the days of the week for which you want to add or adjust a scheduled event.
- **Adjust an event** (Page 68)
Select an event from the list to adjust the time and temperature change of that scheduled event. Use the keypad to type in your settings and press the save button to store your settings.
- **Delete event**
Press the bin icon against any event from the list to delete that particular event.
- **Add another event**
Choose this option to add a new schedule event for your chosen day. An event is an increase or decrease in temperature for your whole heater system.

A maximum of four events are possible for each day.

Adjust Event



Adjust your scheduled events for each day to increase or decrease the temperature for your whole heater system at a particular time. A maximum of four events are possible for each day.

Each event means that the heater system will operate at the new temperature change until the next scheduled event.

Adding an event with 0° will return the heater system back to its normal state.

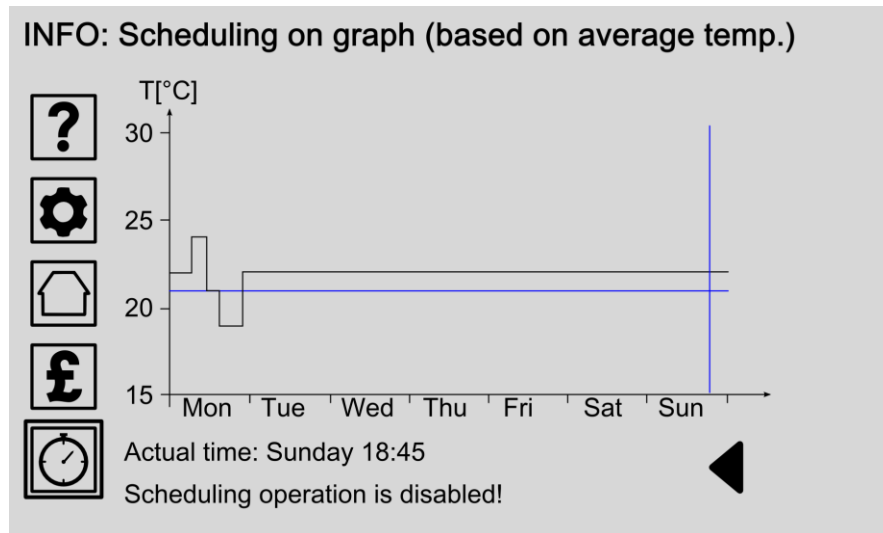
An event of -9°C for example will in effect switch the heater system off until the room environment cools down by 9°C. At that point heating will resume at the new lower temperature.

Options:

- **Scroll through days**
Press the left and right scroll arrows to scroll through the days of the week for which you want to add or adjust a scheduled event.
- **Adjust an event**
Select an event from the list to adjust the time and temperature change of that scheduled event. Use the keypad to type in your settings and press the save button to store your settings.
- **Delete event**
Press the bin icon against any event from the list to delete that particular event.
- **Add another event** (Page 67)
Choose this option to add a new schedule event for your chosen day. An event is an increase or decrease in temperature for your whole heater system.

A maximum of four events are possible for each day.

Graphical View



Options:

- **Go back** (Page 65)
Press the back arrow key to go back to the main timer options menu.
- **Choose another main menu icon**
Select an icon from the main menu list on the left to go direct to another function or to return to the status screen by pressing the home icon.

Your weekly scheduled events are displayed in an easy to view graphical display. The blue line indicates the global temperature of your whole heater system.

A rise in temperature will be shown above the blue line.
A reduction in temperature will be shown below the blue line.

Your current day and time is displayed below the graph, together with the status of your weekly scheduling; either enabled or disabled.

Enable / Disable Scheduling

INFO: Scheduling of operation enabled



CHS Timer Options:



1. Weekly Settings



2. Graphical View



3. Disable scheduling



It is recommended to leave your heater system switched on at all times to achieve optimal heating performance and cost savings.

You may prefer to vary the temperature during the day. To do this, schedule your heater system to heat at different temperatures at set times of the day for each day of the week.

If you prefer to switch the system to an 'almost off' state at a particular time, reduce the temperature by 9°C for example and it will in effect turn your heater system off until your room environment cools down by 9°C. At that point the heater system will resume heating to retain the new lower temperature.

Options:

- **Weekly settings** (Page 66)
Schedule your heater system on a day by day basis to increase or reduce the temperature of the whole heater system at different times of day.

This is useful if for example you prefer a cooler temperature at night or a warmer temperature at specific times of day.


- **Graphical view** (Page 69)
View your weekly schedule settings in an easy to view graphical form.
- **Enable / disable scheduling**
Turn weekly scheduling on or off from the main timer menu screen by pressing the screen option once to enable or again to disable.

Enabling scheduling operates your heater system according to your weekly schedule settings.

Disabling scheduling operates your heater system according to your current (normal) heater settings.

The scheduling status (either enabled or disabled) is displayed in the INFO message at the top of the screen.

Specification: Control Panel

| | |
|---|---|
| Logicor Model No. | PSU 1001 (Control Panel)  |
| Voltage | 120V (USA, CAN) |
| Voltage Type | AC |
| Frequency | 60Hz (USA, CAN) |
| Power Rating | 130mA |
| Width | 204mm |
| Height | 146mm |
| Depth | 58mm |
| Weight | <1kg |
| Colour | White |
| IP Rating (Ingress Protection) | IPX 1 |

MATERIALS

Body: White plastic casing

Base: Chrome plated Aluminum

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.

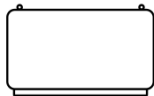

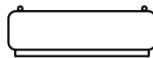
TECHNOLOGY

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.

Note: The control panel has not been evaluated for safety by any NRTL facility.

Specification: Clear Heater Units

| Logicor Model No. | GH-518R (Large) | GH-518B (Small) | GH-518C (Conservatory) |
|---|--|---|---|
| |  |  |  |
| Performance Rating | 900W (0.9kW/h) | 430W (0.43kW/h) | 430W (0.43kW/h) |
| Voltage | 120V (USA, CAN) | | |
| Voltage Type | AC | | |
| Frequency | 60Hz (USA, CAN) | | |
| Width | 1100mm | 550mm | 1100mm |
| Height | 600mm | 600mm | 300mm |
| Depth | 11mm | 11mm | 11mm |
| Weight | 19kg | 10kg | 10kg |
| Colour | White (<i>Special order colors available on request</i>) | | |
| IP Rating (Ingress Protection) | IPX 1 | | |

Specification: Clear Heater Units

MATERIALS

Surround:

Seamless Stainless Steel Chrome.

Base:

Chrome plated Aluminium.

Glass Panels:

Toughened Safety Glass

Electric Supply:

Located at the right end of heater base, connection via flexible lead and Standard AC Power Plug. The socket outlet shall be installed near the equipment and shall be easily accessible.

TECHNOLOGY

Sensors:

Electro Cobalt.

Heating Element:

Carbon Element 1000W or 500W enclosed within toughened Safety Glass.

Heat Form: Radiant and Convection;
Maximum effective range: 8m;
4~9um wavelength range.

Internal:

Logicor proprietary computer controlled software.

TEMPERATURE CONTROL

Programmable via Control Panel. In the unlikely event of a control panel failure, the manual temperature control function on the base of each heater unit gives you manual control for a limited period of eleven days. The heater unit will operate again once a control panel is connected.

ASSEMBLY & PACKAGING

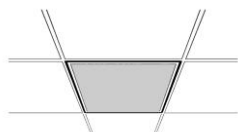
No Assembly required.

All Clear Heater units arrive ready to install. Each Clear Heater panel is packed in a single specifically designed carton with shock protection.

INSTALLATION

A Logicor approved installer will be needed to carry out your installation to ensure the heater units are positioned to achieve optimal heating.

Specification: Ceiling Heater Unit

| | |
|------------------------|--|
| Logicor Model |  Ceiling Heater |
| Voltage | 120-230V (multi-country design) |
| Voltage Type | AC |
| Frequency | 69Hz (USA, CAN) |
| Power Rating | 400W |
| Width | 600mm |
| Height | 600mm |
| Max / Min Depth | 58mm / 12mm |
| Weight | 2.2kg |
| Colour | White |

GENERAL

Operating Surface Temperature:

User defined between 104 to 140°F (40-60°C)
(override not possible)

Operating environmental temperature:

14 to 248°F (-10°C to 120°C) (additional testing to support -22°F / -30°C design parameter)

Computer Control:

Separate on board computer controlling the heater via AI protocols

Infrared operational frequency: 2-9 microns

Infrared operational range: 27 ft / 8.23m

Power distribution modes:

Phased and pulsed (frequency dependent on unit and collective system AI decision)

Life expectancy: 300,000 hours

CONTROL

Control Panel:

Via standard CHS Control Panel

Optional remote operation:

Via Logicor Ceiling Heater Remote Control

Specification: Ceiling Heater Unit (continued)

SENSORS

On-board Infrared Temperature Sensor:

Room sensor calibrated to 0.1°C and hardware (Logicor CHS ceiling tile PCB)

Humidity: On board humidity sensor reporting back to the Control Panel

Camera:

Infrared measuring temperature in both degrees F or C in increments of 0.1° (twin mode operation of highest temp or average temperature)

Optional room temperature sensor:

Blue tooth connection (Logicor proprietary frequency) with a 3V penlight battery lasting 4 years per battery.

Fire detection:

On board and linked (temperature and speed dependant not smoke)

MATERIALS

Element:

Logicor white enamel coated (front) composite multi carbon sandwich element

Front cover:

Pressed aluminium with mica sheet liner dust ingress protection with limited liquid protection. White powder coated; other colours to follow

Rear: Mica sheet dust protection cover on rear and to reduce rear energy escape

PCB housing: Pressed aluminium

CONNECTIVITY

External connectivity:

Via Control Panel (4G or Wi-Fi)

Internal connectivity:

Power line transmission protocols (Logicor proprietary)

Communication:

Bluetooth (Logicor proprietary frequency), IP over mains and infrared

SAFETY FEATURES

Surge protection: Variable speed on board anti-surge protection

Heater element temperature monitoring:

via twin thermocouples

Heater element temperature protection:

Twin on board thermal fuses (break type)

Fault reporting: Automatic via internet and local reporting to Control Panel

Software updates: Automatic

Safety standards: UK and European



Clear Heater System

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

