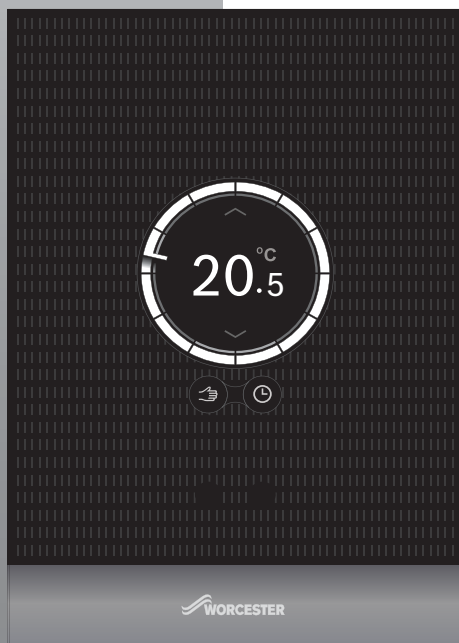
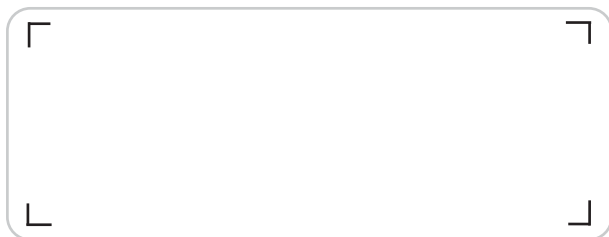


# Installation and Operating Manual

SMART ROOM THERMOSTAT

## Worcester Wave



6720810446-00.1Wo



**Important:** Keep these instructions, with the serial number, in a safe place.

  
**WORCESTER**  
Bosch Group

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## 1 Key to symbols and safety instructions

### 1.1 Explanation of the symbols

#### Information symbol



Important information is placed between two lines and indicated by the letter "i" in a square.

#### Additional symbols

Symbol	Meaning
1.	a numbered step in an action sequence
▶	a step in an action sequence
→	a reference to a related part in the document or to other related documents
①	a reference number to identify or refer to a part or item
•	a list entry
–	a list entry (second level)

### 1.2 Safety instructions

The Worcester Wave room thermostat is intended for regulating a boiler in your home.

- The installation must be carried out by a competent suitably trained person.
- Never dismantle the thermostat.
- Avoid high temperatures, damp and a dusty environments.
- To prevent short circuits or damage to the Worcester Wave room thermostat: when cleaning, do not use water or cleaning agents (→ section 6.1).
- Before starting the installation of the Worcester Wave room thermostat, switch off the mains voltage.

#### Appliance operation

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.

## 2 Product information Worcester Wave

### 2.1 About the Worcester Wave

The Worcester Wave is a smart, internet-connected programmable room thermostat which allows you to control both your central heating and hot water. The Wave can be controlled and programmed using a compatible Apple iOS or Android device across an existing Wi-Fi network.

Simply download the Wave app to your device to take full control of your heating system from anywhere in the world where an internet connection is available.

The Wave's intuitive and modern design ensures it is very simple to operate using either its in-built touchscreen or the interface on the app via your smart phone or tablet from wherever you are.

The Wave app allows you to make adjustments to your required room temperature whenever you like. It also allows you to choose the times that you want the hot water to be on, and what temperature your central heating should reach while it is on. It will allow you to select different temperatures in your home at different times of the day (and days of the week) to meet your comfort needs.

The Wave offers a host of innovative features including; Weather Compensation, Home Presence Detection and Load Compensation.

The Wave uses Load Compensation as standard to continuously monitor and control the room temperature during your programmed central heating times. This function offers energy savings compared to standard on/off controls.

The compensation feature means that, rather than just switching the boiler on and off, it will adjust the flow temperature of the central heating water in line with your central heating set temperature. The smaller the difference between the actual temperature and the set-point temperature, the lower the flow temperature from the boiler.

Load Compensation minimises boiler cycling so less energy is wasted in firing up the boiler after each 'off' cycle. Radiator temperature may be considerably lower than if controlled by an on/off thermostat, reducing temperature overshoot and increasing your comfort.

### 2.2 Standard delivery

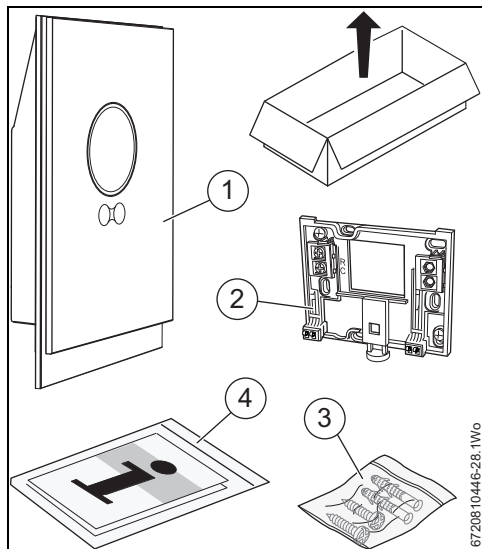


Fig. 1 Standard delivery

- [1] Wave
- [2] Wall mounting plate
- [3] Bag - screws x2 and wall plugs x2
- [4] Installation/Operating manual

The following spare parts for the Wave are available from Worcester, Bosch Group:

- Wave wall mounting plate - 7 738 110 059
- Installation/Operating manual - 8 716 117 251

The following accessories are available:

#### Wave app

- Free Worcester Wave app.



### 2.3 Guarantee conditions

The Worcester Wave has a standard 2 year manufacturer's guarantee. See Worcester Wave app, which contains a link to the on-line registration system.

### 2.4 Software version

When software upgrades are available, updates will be sent remotely. After an update, the touchscreen layout may vary from the image in this operating manual. The software version installed can be seen on the screen if the screen is locked for cleaning.

For the latest version of this document, visit [www.worcester-bosch.co.uk/wave](http://www.worcester-bosch.co.uk/wave).

## 2.5 Operating data

All data is stored in the Worcester Wave, no consumption data is stored on an external server or on the Internet. This protects your privacy.

More information regarding legal and privacy information can be viewed by visiting: [www.worcester-bosch.co.uk/homeowner/our-company/legal-and-privacy-information](http://www.worcester-bosch.co.uk/homeowner/our-company/legal-and-privacy-information)

If the Worcester Wave is disconnected, the data for that day is not stored.

## 2.6 Data connection

- The Worcester Wave is only supported in the UK and Ireland.
- The Worcester Wave requires a Wi-Fi connection to your router.
  - The Worcester Wave supports open Wi-Fi-connections and Wi-Fi-connections encrypted with WEP 128, WPA and WPA2 protocols, WPA2 is the safest protocol and therefore has preference.
- The time setting of the Worcester Wave is available via an external server. If the Worcester Wave has not yet made a connection with this server, the Worcester Wave room thermostat can only be operated manually. Once the connection with the external server is created, the time on the Worcester Wave room thermostat is set.
- All the costs of creating a broadband Internet connection, the use of a smart device are your responsibility.
- The boiler type connected, determines which functions can be used. Visit [www.worcester-bosch.co.uk/wave](http://www.worcester-bosch.co.uk/wave) for an overview of which functions are available on which boiler.

## 2.7 Helpful tips

For help videos, see the Worcester Wave app:

- info>help>videos
- info>help>frequently asked questions (FAQ)

or [www.worcester-bosch.co.uk/wave-FAQ](http://www.worcester-bosch.co.uk/wave-FAQ)

## 2.8 Touch screen

### 2.8.1 Proximity detection

A proximity sensor detects a presence in front of the touchscreen. This makes the touchscreen light up. If nothing is detected, the touchscreen will automatically go off after a while.

In the case of detection longer than 5 minutes, the touchscreen automatically goes off. After this, the touch screen can only be activated again by touching.

### 2.8.2 Overview of the touch screen

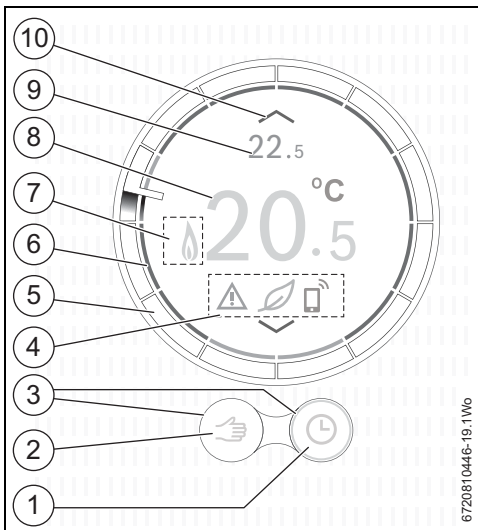


Fig. 2 Overview touch screen

No.	Symbol	Description
1		Time programme
		Self-learning time programme <sup>1)</sup>
		Confirm choice
		Holiday programme active
		Sunday feature active
		Wi-Fi
2		Manual mode
		Back (return to the previous screen/function)
3		Active function
		Inactive function

Table 1 Description of symbols


















No.	Symbol	Description
4		Not connected to Internet server
		No Wi-Fi connection
		No boiler connected
		Eco-indication; temperature set is lower than the measured average.
		Service question; information alert
		Error
		Last modification done via app. or presence detection.
5		Time ring; ring is broken into one hour blocks with the current time indicated
6		Temperature indication time program, when there is a fault, the ring is orange.
7		HW operation active; also visible during heating of the boiler.
		Boiler operating
8		Measured room temperature
9		Set room temperature; only visible if this is not the same as measured temperature.
10		Raise set temperature (inactive)
		Lower set temperature (inactive)
		Raise set temperature (active)
		Lower set temperature (active)

Table 1 Description of symbols

1) ([www.worcester-bosch.co.uk/wave](http://www.worcester-bosch.co.uk/wave))

### Time display

The time display is only visible if the time program is activated. The time display is broken down into one hour blocks and the pointer indicates the time. The actions of the time program can

be seen on the innermost ring. The colour of the time block shows the action in the time programme:

- Red indicates that the set temperature in the time program is higher than the previous time block
- blue indicates that the set temperature in the time program is lower than the previous time block.

### Additional symbols






Connections screen	
Symbol	Description
	EMS boiler
	Wi-Fi
	Internet
	Connected
	Not connected

Table 2 Connection screen symbols






HW mode screen	
Symbol	Description
	HW manual mode active
	HW manual mode inactive
	HW timed mode active
	HW timed mode inactive
	Mode selected

Table 3 HW mode screen symbols

### 3 Installation

#### 3.1 Initial inspection

- ▶ Before installation, check that your Worcester boiler and the Worcester Wave are a compatible combination. The Worcester Wave website has a list of compatible boilers. The requirements for fitting are:
  - 2-wire EMS BUS connection between the boiler and the Worcester Wave.
  - Broadband Internet access via Wi-Fi 802.11 b/g if the app and Internet functionality are used.

#### 3.2 Choosing the installation location

**i** A reference room is an area (for example the hallway or landing) in which the temperature is measured, which is representative of the whole home and where the most time is spent.

#### Installation in the reference room

- ▶ Fit the thermostat to an interior wall in the reference room. Ensure there is sufficient free space around the thermostat.

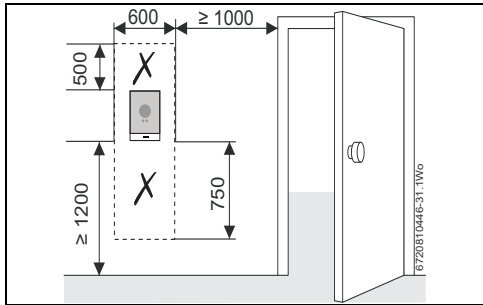


Fig. 3 Thermostat Installation - free space required

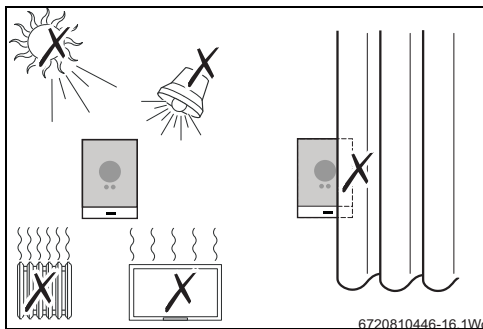


Fig. 4 Thermostat installation considerations

#### 3.3 Connecting to the boiler

**i** See the installation instructions for the boiler for more information on connecting the thermostat.

The Wave connects to your boiler's EMS BUS connections only. **Under no circumstances must the thermostat be connected to the boiler's 230 volt connections or external 230 volt supply.**

Visit the Worcester Wave website and select "Is The Wave suitable for me", or contact an approved installer or Worcester, Bosch Group Technical Support team.

#### 3.4 Installation of the wall mounting plate

**CAUTION:** Thermostat connection. EMS BUS connections only.

- ▶ Do not connect the thermostat to the boiler mains voltage connection

The wall mounting plate can be fitted directly onto the wall, for example, in the location of the previous thermostat.

**i** Ensure when installing on a junction box, that draughts cannot affect the measurement of the room temperature. If necessary, fill the junction box with insulation material.

- ▶ Connect the thermostat cable (EMS BUS cable of the boiler) to the cable clamps on the wall plate. The connections are not polarity sensitive.

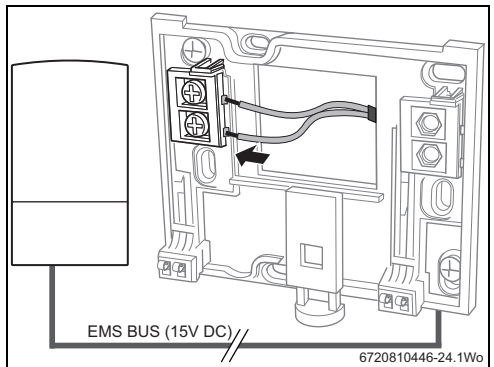


Fig. 5 Connecting the wall plate

### 3.5 Fitting/Removing the thermostat

#### Fitting

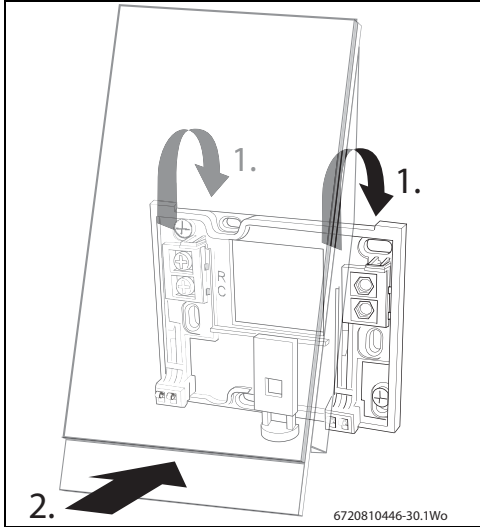


Fig. 6 Fitting the thermostat

- ▶ Hook the thermostat to the back of the wall plate [1].
- ▶ Press the bottom of the thermostat against the wall plate until you hear a "click" [2]. The thermostat is now locked.

#### Removing

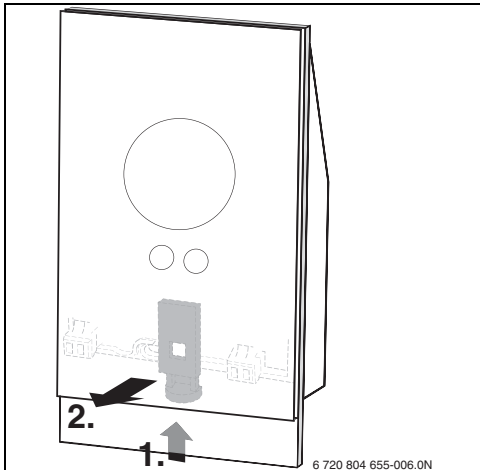


Fig. 7 Removing the thermostat

- ▶ Unlock the thermostat by pressing the unlock button [1] under the front edge.
- ▶ Tilt the bottom of the thermostat up and remove it [2].

### 3.6 Using for the first time

#### 3.6.1 Software updates to the Wave

The software is updated automatically, over your internet connection. Straight out of the box the Wave may not have the latest software installed, as a result, the full app. functionality may not yet be supported. The installed software version can be checked on the cleaning screen (→ Section 6.1, page 11).

#### 3.6.2 Starting up the thermostat

- ▶ Turn on the boiler, this provides power to the thermostat.
- ▶ Remove the plastic screen protector.

The Wave and boiler will link automatically:

- During the connection phase, the Boiler [1], Wi-Fi and internet connection icons are present.
- The thermostat establishes a connection with the boiler (indicated with a tick [2] next to the boiler connection icon [1]).

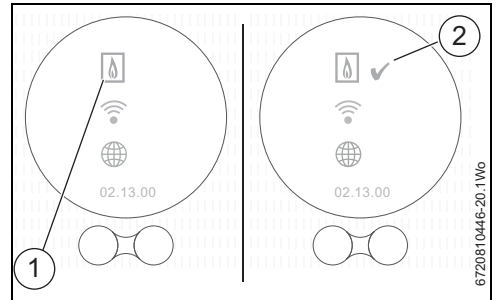


Fig. 8 Connection with the boiler

- The connection has been made with the boiler.

### 3.6.3 Connecting to the Wi-Fi network

**i** The Wave can only connect to “visible” networks. If the network that the Wave has to connect to is a “hidden network”, this will have to be made “visible”. After connection is made, the relevant network may be “hidden” again.

- Once connected to the boiler, the Worcester Wave will automatically look for Wi-Fi networks [1].
- The Wi-Fi networks possibilities are displayed [2].

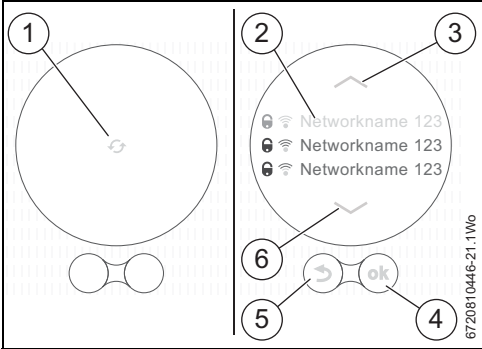


Fig. 9 Selecting Wi-Fi network

- [1] Searching for networks
- [2] Network names
- [3] Up arrow key
- [4] OK (confirmation) key
- [5] Back key
- [6] Down arrow key

The display [2] shows the Wi-Fi networks found.

- ▶ Select the required Wi-Fi network using the arrow keys [3 and 6].
- ▶ Press the **OK** key [4] to activate the selected Wi-Fi network. Protected Wi-Fi networks are recognised by a padlock.

If the Wi-Fi network is password-protected:

- ▶ Input the Wi-Fi network password (→ Section 3.6.4).

If the required Wi-Fi network is not found:

- ▶ Press the “back”key [5] to set the thermostat to the off-line mode.

Now the temperature can only be set manually on the screen.

Connection to the app. or Worcester Wave web-site is not possible.

Press the **OK** key [4] to search again.

**i** → Section 6.3.3, page 13 for possible solutions to connection problems.

### 3.6.4 Input password Wi-Fi network

**i** The Wave uses the standard Wi-Fi protocol, do not use any \$-signs in your Wi-Fi router password.

- ▶ If necessary, remove the \$ sign from your router password.

**i** Connecting and synchronising can take some time.

- ▶ Input the Wi-Fi network password.
- The password is entered with the keys [4].
- Use the shift key [3] to enter capital letters.
- Special punctuation symbols can be entered using the key [6].
- Each key [4] has several character options. By repeatedly pressing this key, the required character will appear on the entry line [7].
- An incorrectly entered character can be deleted with the “back”-key [5].
- ▶ Once the correct password has been entered, confirm the by pressing the “ok” key - [1].

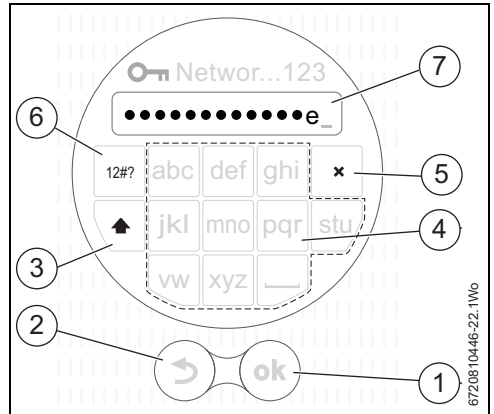


Fig. 10 Input Wi-Fi network password



### Connecting to Wi-Fi network and internet

- Firstly, connection with the Wi-Fi-network [1] is made, confirmed with a tick
- Secondly, connection to Internet [2] is made, confirmed with a tick

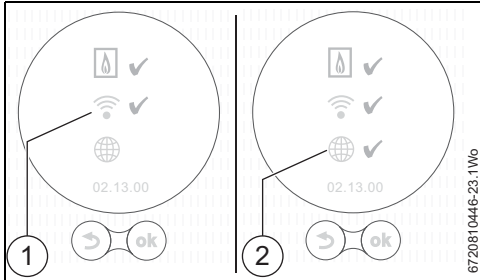


Fig. 11 Connecting to the Wi-Fi network and internet



Problem with making the connections?  
Refer to the Troubleshooting guide on page 13

- If all connections are made, the data is synchronised.
- The display will now show the basic screen.

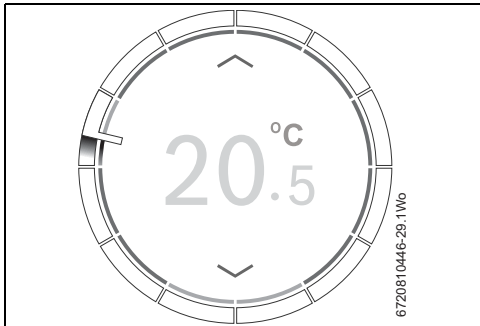


Fig. 12 Basic screen

- ▶ Download the Worcester Wave app. to your smart device from either:



- ▶ Install the Worcester Wave app. onto your smart device
- ▶ Make a connection to the Worcester Wave from your smart device
- ▶ Register the app. with the Worcester Wave website.
- ▶ Enter the unique access code (→ label on the front page)
- ▶ Set a personal password, of your choice, and record this on the front of these operating instructions.

## 4 Operation



The touch screen is intended for limited manual operation, for all other operations and programming the Worcester Wave app. on your smart device must be used.

### 4.1 Central Heating

#### 4.1.1 Changing temperature setting

The touch screen lights up when approached. Changing the temperature may be done in the following 3 ways.

#### Swipe

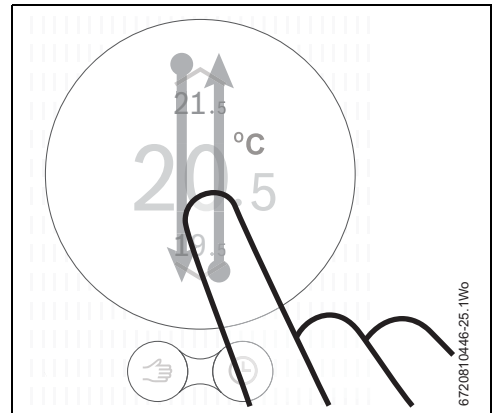


Fig. 13 Swipe

- ▶ Swipe down or up to change the temperature.

#### Tap

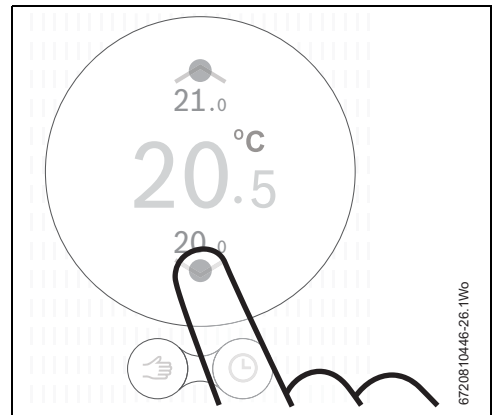


Fig. 14 Tap

- ▶ Tap above or below the temperature shown to change it.

**Hold (Long press)**

- ▶ Press and hold an up or down key to change the displayed temperature quickly.

**4.1.2 Manual mode/time programme**

The time programme can only be set using the Worcester Wave app. on your smart device.

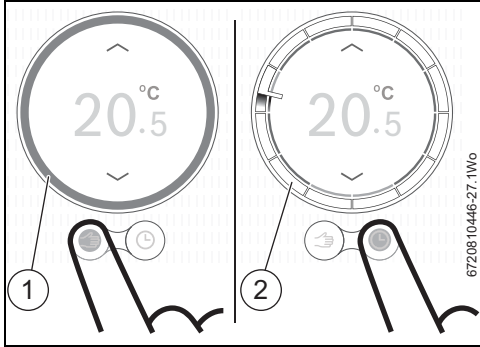


Fig. 15 Choose manual mode/time programme

- [1] Manual mode ring
- [2] Time mode ring

- ▶ Briefly press the manual mode or time program key to switch between these functions.

**4.2 Hot Water**

**4.2.1 Combi boilers**

The boiler preheat function must be enabled to allow the Wave to take control of your hot water.

Refer to your combi boiler user guide to enable the preheat function, i.e. turn the ECO function off.

For combi boilers the hot water screens are only accessible when the hot water control is enable by you in the app.

**4.2.2 Temporarily adjusting the HW time programme**

Tap the “Time programme” icon twice to enter the HW timed function, tap either the “HW timed” icon to switch the hot water ON until the next time period or “HW not timed” icon to switch the hot water OFF until the next time period.

Tap the “back” icon to return to the normal screen.

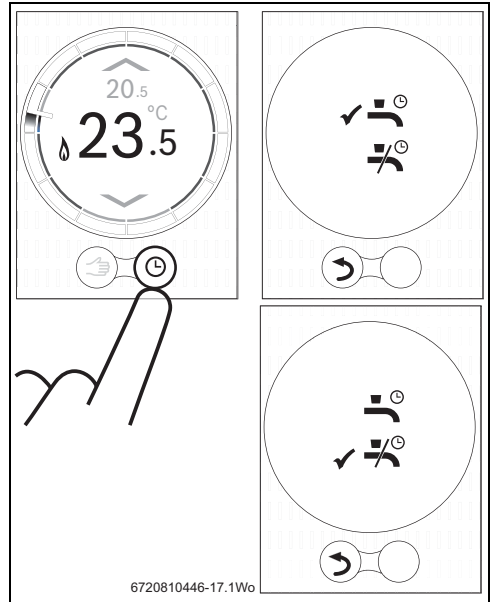


Fig. 16 Hot water screens

### 4.2.3 Setting the HW permanently ON or OFF

Tap the “manual” (hand) icon twice to enter the function, tap either the HW icon for permanently ON or the “no HW” icon for permanently OFF.

Tap the “back” icon to return to the normal screen.

Hot water will now remain permanently in this selected state until the 'Time programme' icon is selected.

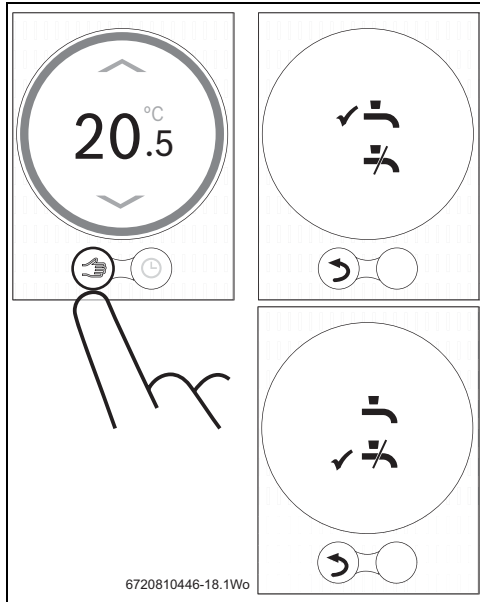


Fig. 17 Permanently ON or OFF

### 4.3 Other functions and setting time programme

#### Use app.

With the Worcester Wave app, different functions can be used and the time programme for central heating and HW can be changed.

To help you become familiar with the Worcester Wave app there are a number of useful videos available via the Worcester website. These videos can also be accessed via the app 'Info' pages.

#### Online

There are a number of different functions available in the Worcester Wave app, depending upon your boiler model. Visit [www.worcester-bosch.co.uk/wave](http://www.worcester-bosch.co.uk/wave)

## 5 Specifications

Description	Unit	Value
<b>Voltage supply</b>	VDC	14.3 to 16.0
<b>Consumption (maximum)</b>	W	0.9
<b>Dimensions (L x W x H)</b>	mm	100 x 145 x 27
<b>Weight</b>	g	250
<b>Permissible operating temp.</b>	°C	0 to 45
<b>Permissible relative humidity</b>	%	10 to 90
<b>Connection (Wi-Fi)</b>		802.11b/g

Table 4 Specifications

## 6 Maintenance and troubleshooting

### 6.1 Cleaning the touch screen

- ▶ Swipe from left to right to lock the touch screen.

The screen is now locked and the installed software version is displayed on the screen.

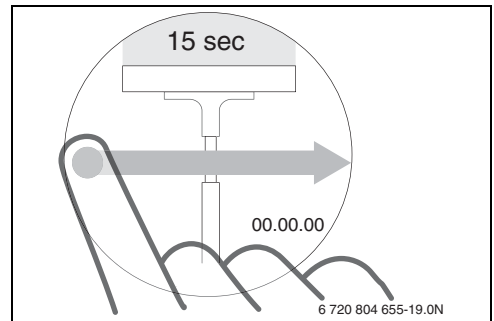


Fig. 18 Touch screen protection

- ▶ Clean the touch screen within 15 seconds with a clean, dry cloth.

### 6.2 Change Wi-Fi network or new network password

To log the Worcester Wave onto a new Wi-Fi network or if the existing network has a new password:

- ▶ Reset the thermostat (→ Section 6.3.2).
- ▶ Follow the step to set a Wi-Fi network (→ Section 3.6.3).

## 6.3 Troubleshooting



Fault messages from the boiler are visible on the display and are sent automatically from the thermostat to the Worcester Wave app.

### 6.3.1 After a power cut

All settings are saved during a power cut. After the connection is re-established with the Wi-Fi network, the settings will be synchronised with the external server.

- Check the date and time setting

If a connection can **not** be made with a Wi-Fi network, the date and time settings can be applied through a direct Wi-Fi connection with the app. from a smart device. Date and time are automatically synchronised.

### 6.3.2 Reset thermostat

If the Worcester Wave no longer works properly, it can be disconnected briefly from the wall plate and then re-attached (→ Fig. 7, page 7).

If this does not solve the problem, with the Wave mounted on the wall, the reset key (→ Fig. 19) can be pressed for a few seconds to remove the fault. If the fault occurs again, then contact the your installer or Worcester, Bosch Group Technical Support team.



**Reset!**  
Using the reset key deletes all personal settings and the Wi-Fi connection has to be set up again.

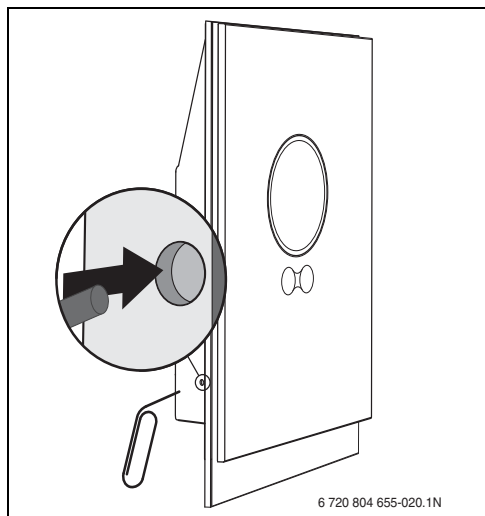


Fig. 19 Reset

**6.3.3 Troubleshooting**


Visit [www.worcester-bosch.co.uk/wave-FAQ](http://www.worcester-bosch.co.uk/wave-FAQ) for a full list of frequently asked questions.





<b>Error</b>	<b>Remedy</b>
<b>No Wi-Fi connection</b>	The Wi-Fi signal from the Wi-Fi router is possibly not strong enough. Fit a Wi-Fi repeater.
<b>Wi-Fi network not found</b>	Hide function of the Wi-Fi-router is possibly switched on or broadcast function (transmitting the SSID) is switched off. Temporarily switch the hide-function off or broadcast-function on.
 <b>This display remains on</b>	Wi-Fi network is possibly protected with "WEP64" protocol. This protocol is not supported. Change the safety protocol of the router.
<b>IP address</b>	There is no IP-address allocated by the router yet. This can take some time. It may be necessary to manually allocate an IP-address in the router (→ router manual).
<b>New router or Wi-Fi network installed</b>	Remove the thermostat from the wall plate, wait 10 seconds and then click the thermostat back onto the wall plate. All Wi-Fi networks found are shown on the display (→ Section 3.6.3).
<b>Time ring on the thermostat not shown</b>	Connection to the server is broken. Wait until the connection is restored.
<b>Serial number and access code missing</b>	The serial number and the access code are both on the label on the front of these instructions and also on the label on the back of the thermostat. If an app. is used to log in, the serial number and the access code can be shown in the app. by going via the "Info" menu to the submenu "product information". If the serial number and the access code cannot be found, then contact the Worcester, Bosch Group technical support.
<b>App cannot connect to the thermostat</b>	Is the thermostat connected to the Internet (→ 3.6.3)? Are the serial number and the access code input correctly? Please note, these are case-sensitive. There is possibly a delay in establishing the connection. Wait for a few minutes.
<b>Touch screen locked, timer counting down</b>	A horizontal swipe across the display makes the touch screen inactive. The touch-screen is the locked for 15 seconds to be cleaned. The touch screen may be locked in the app, check the app and unlock if necessary.
<b>Temperature displayed is too high or too low</b>	In the app, the temperature shown can be calibrated (→ refer to <a href="http://www.worcester-bosch.co.uk/wave/FAQ">www.worcester-bosch.co.uk/wave/FAQ</a> ).
<b>Touchscreen will not come on</b>	If there is detection for longer than 5 minutes, the screen goes off automatically. After this, the screen can only be activated again by touching.
 <b>Symbol visible on the screen</b>	There is no connection to the Internet server, wait until the connection to the Internet server is restored automatically. Once started, the boiler can only be controlled manually, no time programme is available.
<b>Password with \$ signs</b>	The Wave uses the standard Wi-Fi protocol, so it is not possible to use a \$-sign in the Wi-Fi router password. Remove the \$ sign from the router password.
 <b>stays on</b>	Symbol disappears when the temperature is changed via the display or when the next switching point is reached in the time programme mode.
<b>No full app. functionality.</b>	Straight out of the box, the latest software version may not be installed on the Wave, as a result functionality may not yet be supported by the Wave. The software is updated automatically, this can possibly take a few days.
 <b>Symbol visible on the screen</b>	Indication of one of the following messages: repeated ignition attempts, Worcester boiler gives maintenance message. This relates to an information signal. The boiler runs normally.
<b>No software updates received in the Wave</b>	The software is updated automatically and a continuous Internet connection is required for this. If the router is not on continually, updates may be missed.

Table 5 Troubleshooting list

## 7 ERP Class

The data represented in the table below is required for the completion of Energy Related Product (ErP) Directive System Package fiche and, subsequently, the ErP system data label. ERP Labelling obligation applicable from 26th September 2015.

Supplier	Model	ERp Class	Wave function and ERP description	Additional seasonal space heating efficiency gain
Worcester, Bosch Group	Wave	V	<p><b>Load compensation (factory setting ON)</b></p> <p>Modulating room thermostat, for use with modulating heaters: An electronic room thermostat that varies the flow temperature of the water leaving the heater dependant upon measured room temperature deviation from room thermostat set point. Control is achieved by modulating the output of the heater.</p>	<b>+3%</b>
Worcester, Bosch Group	Wave	VI	<p><b>Weather compensation</b></p> <p>Weather compensator and room sensor, for use with modulating heaters: A heater flow temperature control that varies the flow temperature of water leaving the heater dependant upon prevailing outside temperature and selected weather compensation curve. A room temperature sensor monitors room temperature and adjusts the compensation curve parallel displacement to improve room comfort. Control is achieved by modulating the output of the heater.</p>	<b>+4%</b>

## Notes

Worcester, Bosch Group  
Cotswold Way, Warndon, Worcester WR4 9SW.  
Tel. 0330 123 9559  
Worcester, Bosch Group is a brand name of  
Bosch Thermotechnology Ltd.

[www.worcester-bosch.co.uk/wave](http://www.worcester-bosch.co.uk/wave)

6 720 810 466 (2014/09)

**WORCESTER, BOSCH GROUP:**

TECHNICAL SUPPORT:	0330 123 3366
APPOINTMENTS:	0330 123 9339
SPARES:	0330 123 9779
LITERATURE:	0330 123 9119
TRAINING:	0330 123 0166
SALES:	0330 123 9669



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