

idealheating.com

HALO

Halo Heat & System 2-Zone Extension Installation Guide

For use with



## HALO HEAT & SYSTEM 2-ZONE EXTENSION INSTALLATION GUIDE

Product Code: 222145

2-Zone Extension kit for Halo Heat & System Wi-Fi or Halo Heat & System RF.

Compatible with the following boilers: Logic Heat H, Logic Heat H IE, Logic System S, Logic System S IE, Logic+ Heat H, Logic+ System S, Logic Max Heat H, Logic Max Heat H IE, Logic Max System S, Logic Max System S IE Keston System, Vogue System, Vogue GEN2 System, Vogue Max System, Vogue Max System IE.

To install Halo with older boilers further details can be found at [idealheating.com](http://idealheating.com)

This installation guide is designed to work alongside the installation guide from either the Halo Heat & System RF (222141) or the Halo Heat & System Wi-Fi (222143).

This guide will advise you on how to install and pair the Halo control unit for Zone 2.

The Halo Heat & System 2-Zone Extension kit must be installed by a competent person with the appropriate safety qualifications. Please read the instructions carefully. Failure to follow these instructions can damage the product or cause a hazardous condition.

These instructions are applicable to the Ideal Boiler models stated and must not be used with any other make or model of boiler. This product must be installed to all applicable standards.

Halo Heat & System RF is a non-connected control (control is via the Halo Heat & System unit only).

Halo Heat & System Wi-Fi is a wireless heating control that is connected to the internet. You can download the Halo app on Google Play or the Apple app store. You will not have to pay to use the app.

For more information on the features in your Halo app visit the Help section of the app or [idealheating.com](http://idealheating.com).

If you have purchased or are upgrading a Halo Heat & System RF (non-connected control) you can upgrade this to an internet heating control by downloading the Halo app and following the steps in the app to connect your Halo control. You will be required to pay a connection fee to upgrade to app-controlled heating.



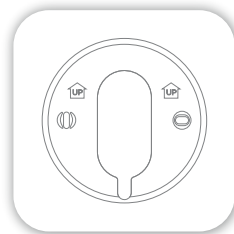
## A. KIT CONTENTS



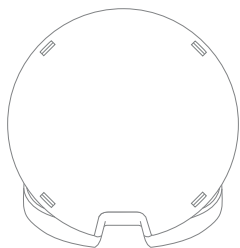
1. Halo PRT display unit



2. PRT rear housing



3. Trim plate



4. Desk stand



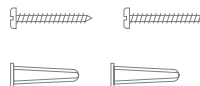
5. Installation guide



6. User guide



7. 4x AA Batteries

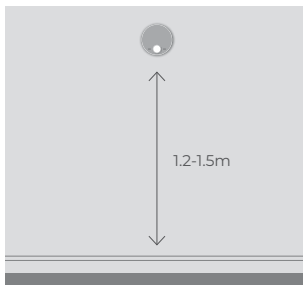


8. Screws & Rawlplugs™

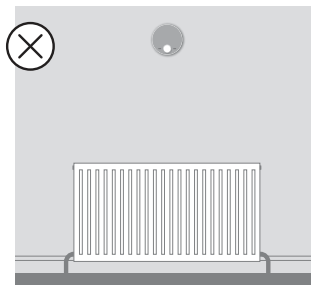
## B. LOCATION GUIDELINES

The Halo Heat & System 2-Zone Extension uses wireless Zigbee communication from the Smart Interface to the Halo PRT up to a maximum distance of 30 meters. Occasionally house constructions and materials can reduce this communication range and it is advisable, where possible, to try and avoid directing communications through metal frames or solid concrete walls.

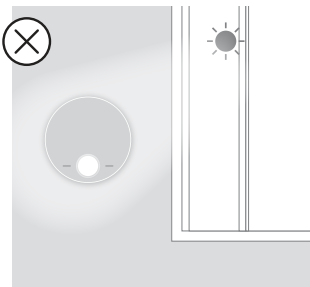
If the distance between the Halo PRT and Smart Interface is greater than 30 meters or the install location is challenging, consider using the Zigbee Booster (UIN 221132), further details available at [idealheating.com](http://idealheating.com)



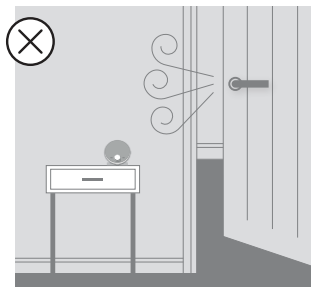
1. Mounted 1.2-1.5m above the floor



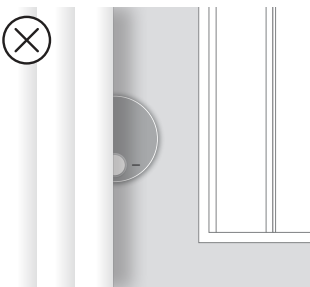
2. Not above a radiator/heat source



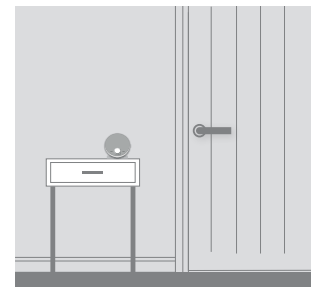
3. Not in direct sunlight



4. Away from any drafts



5. Not fitted behind curtains



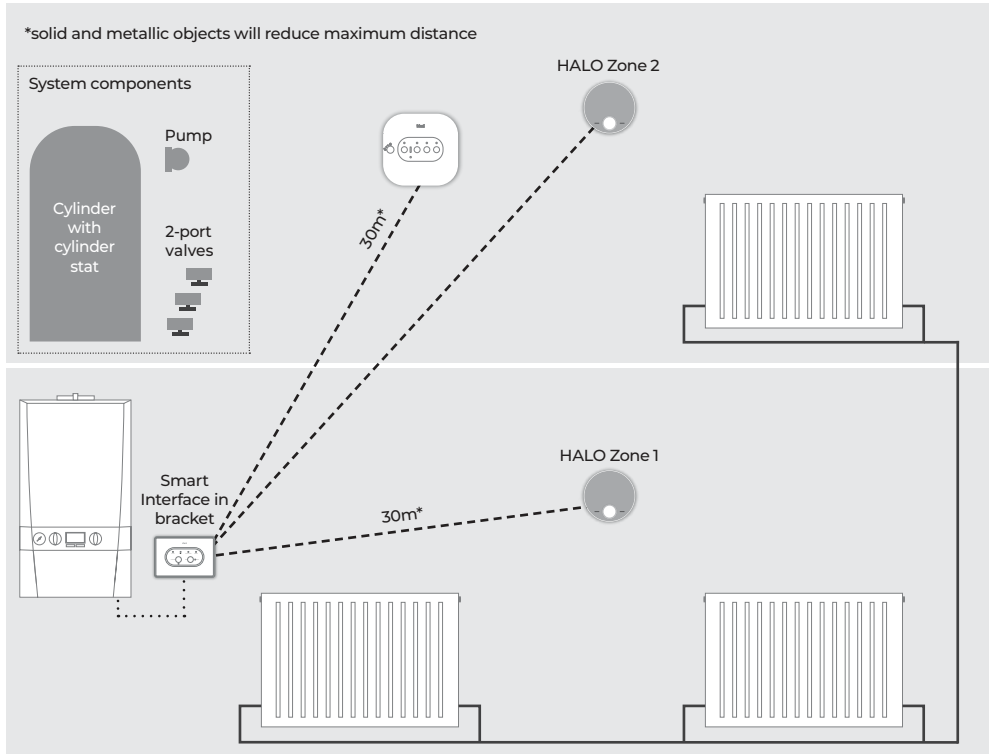
6. Internal use only

## C. SYSTEM OVERVIEW

This is a simplified diagram of how the Halo units, Smart Wiring Centre and Smart Interface communicate. Some wiring and pipework has been omitted for clarity.

**TOP TIP:** For a robust signal between units, where possible, ensure that the line of communication between the Smart Interface and other units is not through any stone or metallic object.

—	Pipework
- - -	RF Connection
.....	Wiring

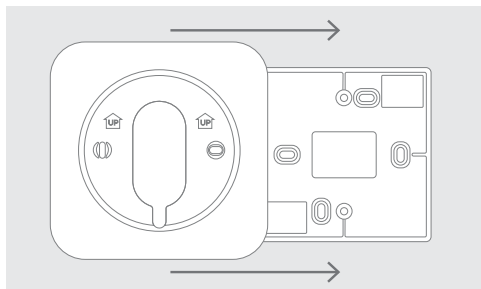


## D. INSTALLING THE HALO PRT

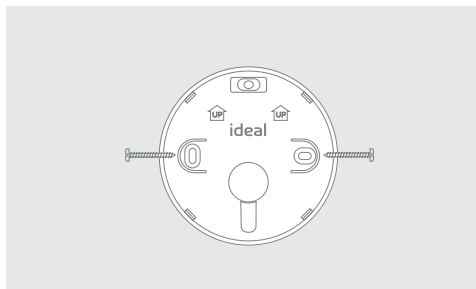
The Halo can be either wall mounted or desk mounted.

### WALL MOUNTING THE HALO

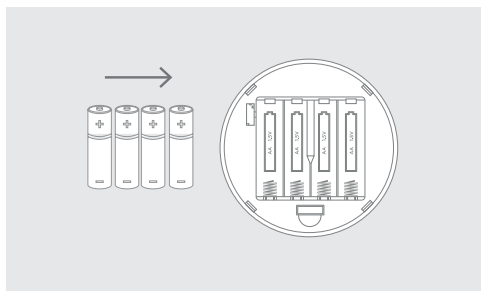
If there are any concerns regarding signal strength and location of the wall mounted PRT it is advisable to pair the control and check the signal strength before fixing to the wall.



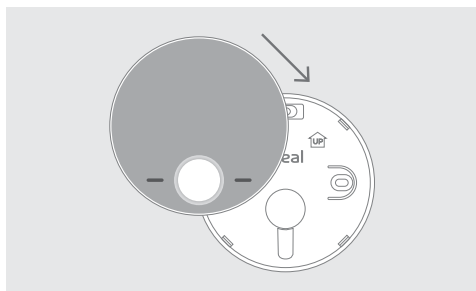
1. The Halo can be installed with or without the provided trim plate.



2. If no trim plate is required, use the rear housing of the Halo to position the unit on the wall, alternatively secure rear housing to trim plate. Take care not to overtighten the screws.

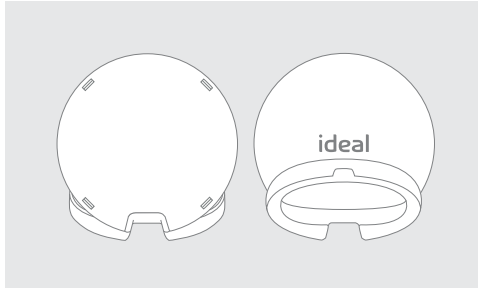


3. Insert the 4 AA batteries provided into the front housing of the Halo. Pay close attention that the orientation of the batteries is as indicated in the housing.

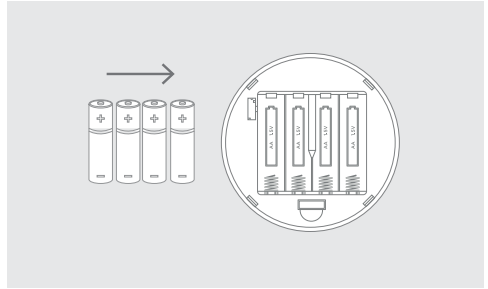


4. Locate the front housing (display) in position perpendicular to the rear housing and clip into place.

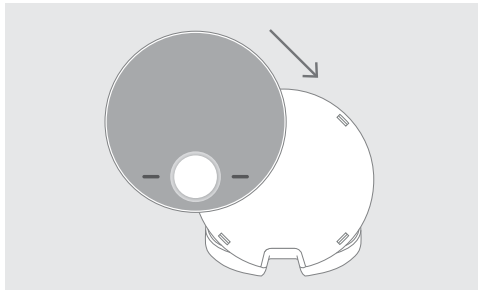
## DESK MOUNTING THE HALO



1. The Halo has an integrated rear housing and desk stand.



2. Insert the 4 AA batteries provided into the front housing of the Halo. Pay close attention that the orientation of the batteries is as indicated in the housing.



3. Clip the combined rear housing and desk stand into place.

## E. PAIRING OF THE HALO - ZONE 1

### HEATING AND HOT WATER CONTROL

The Halo PRT controlling zone 1 will now need to be paired with the Smart Interface installed by the boiler. Ensure the Smart Interface is still in pairing mode with the Zigbee LED flashing red.

1. When the batteries are inserted, the Halo PRT will power up automatically.
2. The device will prompt pairing with the Smart Interface using an easy step-by-step process.
3. Simply follow the on-screen guide to select the type of boiler, **Heat & System**, and the system type, **Two zone heating and hot water** and **Zone 1**.
4. The Halo PRT screen will show "Pairing in Progress", then "Synchronisation in Progress" and then "Pairing Complete" when the Halo PRT has successfully connected to the Smart Interface.
5. The device will automatically prompt set up of the time and date.
6. There is the opportunity to add an installer contact phone number into the device at this stage, if not changed this will default to the Ideal Heating Customer Service number.
7. The home screen will be displayed showing the current and target temperature and the temperature bar. The Zigbee communication icon will also be visible on the display.



## E. PAIRING OF THE HALO - ZONE 2

The Halo PRT controlling zone 2 will now need to be paired with the Smart Interface installed by the boiler. Ensure the Smart Interface is still in pairing mode with the Zigbee LED flashing red.

1. When the batteries are inserted, the Halo PRT will power up automatically.
2. The device will prompt pairing with the Smart Interface using an easy step-by-step process.
3. Simply follow the on-screen guide to select the type of boiler, **Heat & System**, and the system type, **Two zone heating and hot water** and **Zone 2**.
4. The Halo PRT screen will show "Pairing in Progress", then "Synchronisation in Progress" and then "Pairing Complete" when the Halo PRT has successfully connected to the Smart Interface. The Date and Time are automatically uploaded from Zone 1.
5. The home screen will be displayed showing the current and target temperature and the temperature bar. The Zigbee communication icon will also be visible on the display.



# COMMISSIONING CHECKLIST

When both Halo units are set up use this commissioning checklist to check and complete the install

Description		Zone 1
Use the "Identify" function to confirm successful pairing has taken place. Short press on the Pair button on the Smart Interface. Press Pair button again to exit "Identify" function.	Zigbee LED on Smart Interface flashes green	
	Halo home screen flashes to indicate successful pairing	
	Zigbee LED on Smart Wiring Centre flashes green	
Halo is positioned in the homeowners chosen location if desk mounted.		
Check RSSI (Received Signal Strength Indication) of the Zigbee wireless connection via support page on the PRT (access via the menu).	Target RSSI between 0 and -65 and text green	
Check RSSI (Received Signal Strength Indication) of the Zigbee wireless connection and the Wi-Fi connection via the support information in the Halo app. (Wi-Fi only)	Target RSSI between 0 and -65 and text green	
On the Halo set the mode to AUTO then increase the temperature to 30°C (repeat using Halo app if applicable). Note: The boiler will only fire once the zone valve is in the fully open position.	Flame icon ON	
	Heating zone on Smart Wiring Centre OFF	
	Boiler ON	
	Boiler LED on Smart Interface ON (Green)	
On the Halo set the heating mode to AUTO then decrease the temperature to 5°C (repeat using Halo app).	Flame OFF	
	Heating zone on Smart Wiring Centre OFF	
	Boiler OFF	
	Boiler LED on Smart Interface OFF	
On the Halo set the hot water mode to ON (repeat using Halo app). Note: The boiler will only fire once the zone valve is in the fully open position.	Hot water ON (icon turns orange)	
	Hot water zone Smart Wiring Centre ON	
	Boiler ON	
	Boiler LED on Smart Interface ON (Green)	
On the Halo set the hot water mode to OFF (repeat using Halo app).	Hot water OFF (icon turns white)	
	Hot water zone Smart Wiring Centre OFF	
	Boiler OFF	
	Boiler LED on Smart Interface OFF	

## COMMISSIONING CHECKLIST (CONT.)

Description		Zone 2
<p>Use the "Identify" function to confirm successful pairing has taken place. Short press on the Pair button on the Smart Interface. Press Pair button again to exit "Identify" function.</p>	Zigbee LED on Smart Interface flashes green	
	Halo home screen flashes to indicate successful pairing	
	Zigbee LED on Smart Wiring Centre flashes green	
Halo is positioned in the homeowners chosen location if desk mounted.		
Check RSSI (Received Signal Strength Indication) of the Zigbee wireless connection via support page on the PRT (access via the menu).	Target RSSI between 0 and -65 and text green	
Check RSSI (Received Signal Strength Indication) of the Zigbee wireless connection and the Wi-Fi connection via the support information in the Halo app. (Wi-Fi only)	Target RSSI between 0 and -65 and text green	
<p>On the Halo set the mode to AUTO then increase the temperature to 30°C (repeat using Halo app if applicable). Note: The boiler will only fire once the zone valve is in the fully open position.</p>	Flame icon ON	
	Heating zone on Smart Wiring Centre OFF	
	Boiler ON	
	Boiler LED on Smart Interface ON (Green)	
<p>On the Halo set the heating mode to AUTO then decrease the temperature to 5°C (repeat using Halo app).</p>	Flame OFF	
	Heating zone on Smart Wiring Centre OFF	
	Boiler OFF	
	Boiler LED on Smart Interface OFF	
<p>On the Halo set the hot water mode to ON (repeat using Halo app). Note: The boiler will only fire once the zone valve is in the fully open position.</p>	Hot water ON (icon turns orange)	
	Hot water zone Smart Wiring Centre ON	
	Boiler ON	
	Boiler LED on Smart Interface ON (Green)	
<p>On the Halo set the hot water mode to OFF (repeat using Halo app).</p>	Hot water OFF (icon turns white)	
	Hot water zone Smart Wiring Centre OFF	
	Boiler OFF	
	Boiler LED on Smart Interface OFF	

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HEATING

Hereby, Ideal Boilers Ltd declares that this device (model 222145) is in compliance with: Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address **idealheating.com**

For more information and FAQs visit the Ideal Heating website **idealheating.com**

UIN: 229178 A02



RF frequency: 2405 – 2480MHz Max.  
RF output power: 10dBm

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