



# User Manual

**Aluminum Electric Radiator with  
Kaolin Ceramic Heat Plates**

**JT6r, JT9r, JT12r, JT15r, JT20r**



**Please read this manual carefully before use**

## **IMPORTANT SAFEGUARDS**

When using an electrical appliance, basic safety precautions should always be observed, including the following:

### **READ ALL INSTRUCTIONS BEFORE USING**

**WARNING: To reduce the risk of fire, electrical shock, or injury to person:**

1. Connect the appliance to single-phase AC supply of the voltage specified on the rating plate 230V +/- 10%
2. In order to avoid overheating do not cover the heater.
3. Extreme caution is necessary when any heater is used by or near children, disabled persons or elderly persons as the surface area is hot
4. The heater must not be located immediately below an electrical Socket-outlet.
5. Do not run power cord under carpeting and do not cover cord with throw rugs, runners or the like. Arrange cord away from traffic area and where it will not be a trip hazard.
6. Do not operate the heater with a damaged cord or plug; always inspect the power cord before installation.
7. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or a similarly qualified person in order to avoid a hazard.
8. Never use an extension cord as this may overheat and

may cause a fire.

9. Use the heater in a well-ventilated area. Use the heater on flat, dry surfaces only.
10. Do not place this heater near flammable materials, surfaces or substances, as there may be a risk of fire. Keep the above flammable materials, surfaces or substances at least 300mm from the front of the product and keep them away from the sides and rear.
11. Do not use the heater in any areas where petrol, paint or other flammable liquids are stored e.g. Garages or workshops.
12. Don't use this heater in the immediate surroundings of a bath, a shower or a swimming pool. Always seek advice in locating a suitable position for such areas. The heater should be installed so that can not be touched by a person using a bath or shower.
13. This heater is hot when in use. To avoid burns and personal injury, avoid contact for long periods with the heater.
14. Before moving the heater, please must unplugged it and let it cool down for 45 minutes. If provided, use handles when moving the product.
15. Be sure that no other appliances are in use on the same electrical circuit as your product as an overload can occur. Seek professional advice from an electrician before installing the product
16. This appliance is not intended for use by persons

(including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

17. Children should be supervised to ensure that they do not play with the appliance.
18. 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.
19. Children of less than 3 years should be kept away unless continuously supervised.
20. Children aged from 3 years and less than 8 years shall only switch on/off the appliance provided that it has been placed or installed in its intended normal operating position and they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children aged from 3 years and less than 8 years shall not plug in, regulate and clean the appliance or perform user maintenance.

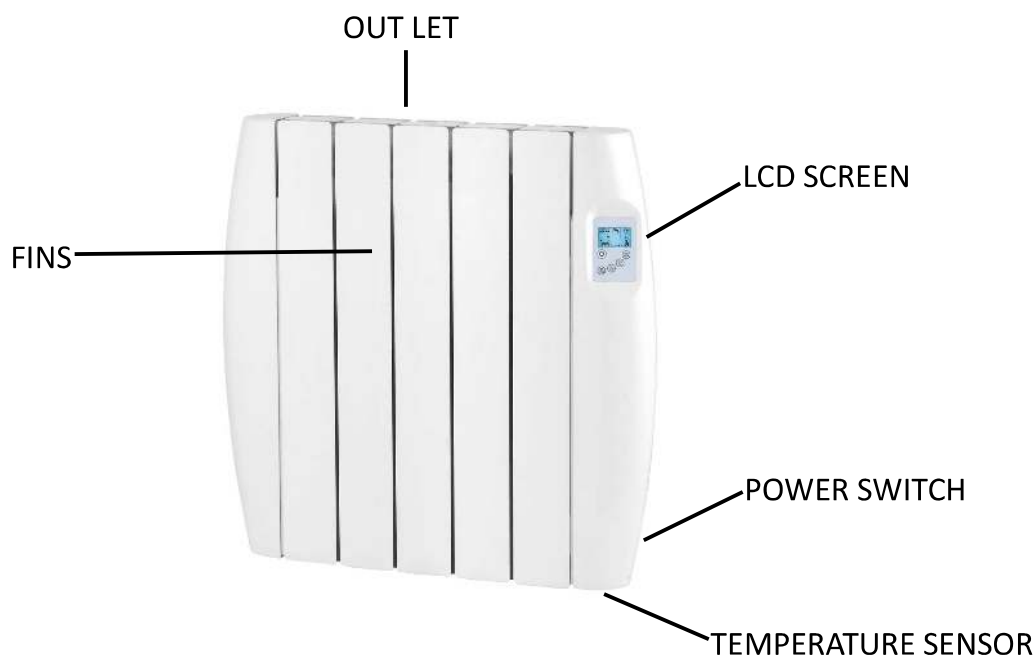
21.Regulations concerning the disposal of oil when scrapping the appliance have to be followed.

## SAVE THESE INSTRUCTIONS

### SPECIFICATIONS

MODEL NO	FINS	NET SIZE	RATED VOLTAGE	RATED POWER
JT6r	4	500x80x580mm	~230V/50Hz	600W
JT9r	5	580x80x580mm	~230V/50Hz	900W
JT12r	8	820x80x580mm	~230V/50Hz	1200W
JT15r	10	980x80x580mm	~230V/50Hz	1500W
JT18r	12	1140x80x580mm	~230V/50Hz	1800W

### STRUCTURE AND PARTS



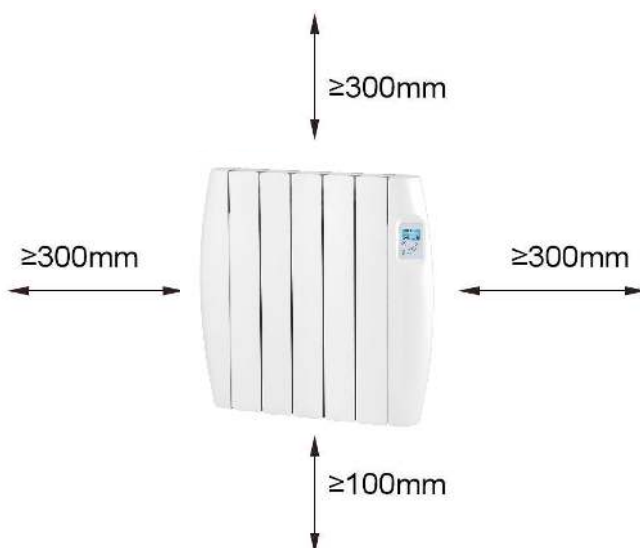
## CHARACTERISTIC

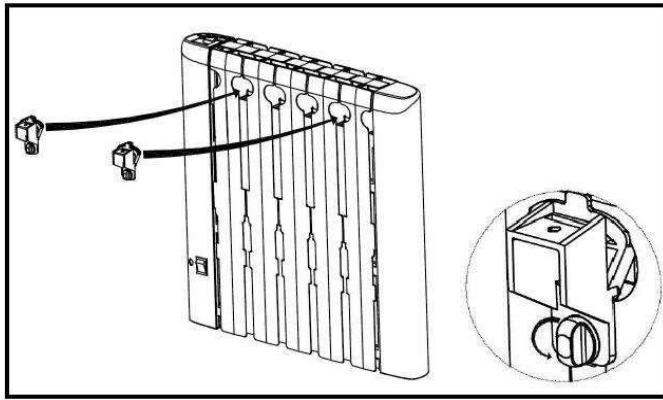
1. 1 heat setting
2. Over heating protection
3. With digital LCD
4. Room temperature setting
5. Room temperature sensor
6. Digital clock, digital week calendar
7. Multi-running mode: daily program mode, weekly program mode, free use mode, pilot system function
8. Anti-frost function
9. Wall-mount use
10. Built in RF Communication. 868Mhz

## INSTALLATION

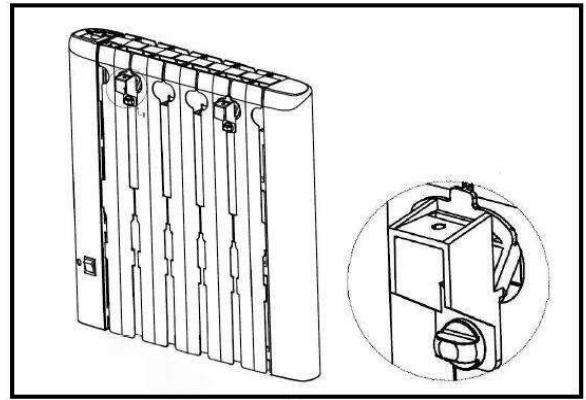
**Prior to installation please assemble the wall mounting bracket with the bolts and nuts provided. A star head screwdriver and pliers is required to tighten the nuts. Ensure the cross section bracket is level by placing it on a flat surface and use a spirit level.**

**Once completed follow the instructions below the images carefully to install the bracket and heater.**

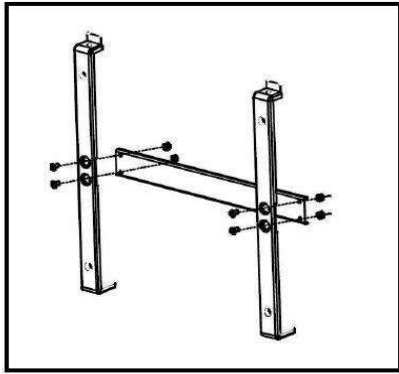




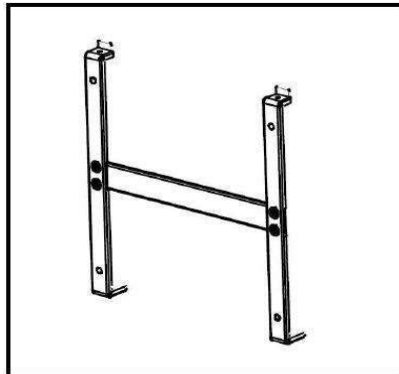
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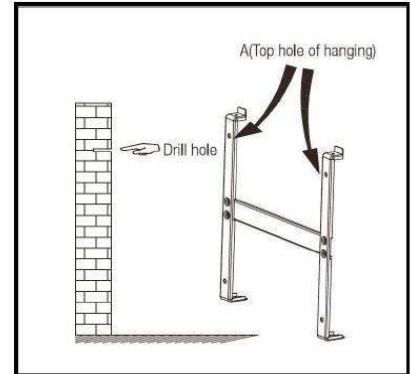
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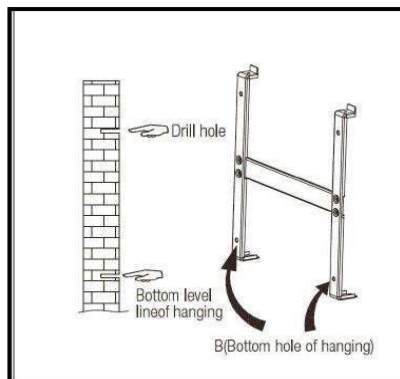
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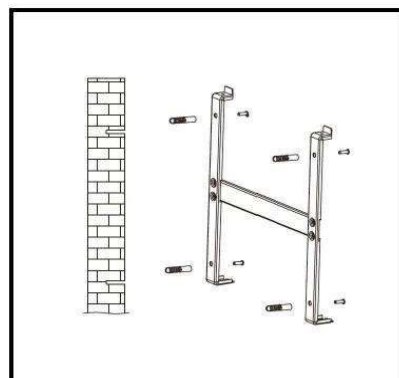
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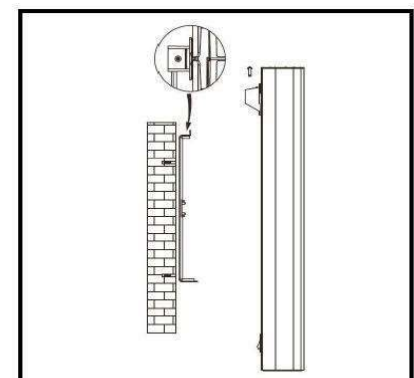
5



6



7



8

A, Refer picture (1) & (2), fix the plastic hooks on the back of radiator by contrarotating the knob.

B, Refer picture (3) & (4), use screw to fix the hang rack.

C, Refer to picture (5) & (6), make sure side A is up & side B is down position for the hanging rack. Do not make hanging rack in wrong direction.

D, Put the hanging rack on the wall as a guide ruler (please make sure the holes at parallel level), use a mark pen to mark the hole position, and drill holes on the wall with  $\phi$  8mm drill bit, refer to the picture (5) & (6).

**Warning: be sure to maintain a distance of at least 30 cm between the heater, floor, walls, etc. When drilling holes, always check to make sure that there is no wiring, pipework, etc. in the area that is to be drilled.**

E, Insert the plastic wall plug, and fasten the hanging rack on the wall with the screws, refer to picture (7).

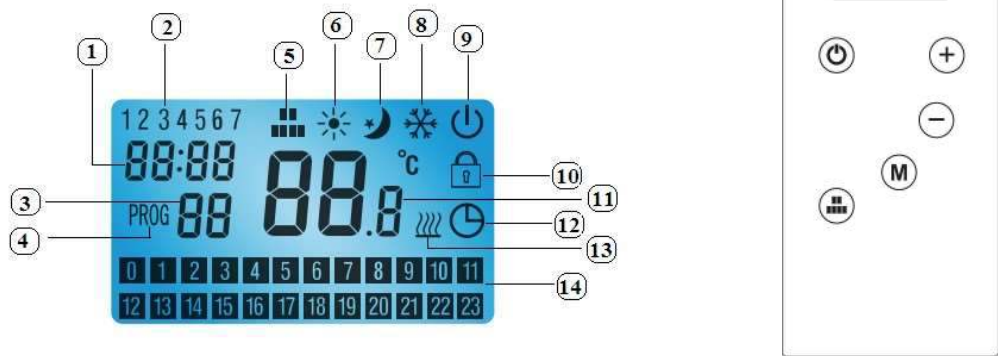
F, Gently insert the heater body of the bottom to the hanging rack first and then push the heater body to be hooked on the whole hanging rack and fasten the hanging rack with hanging sheathing by screw, refer to picture (8).

# INSTRUCTIONS FOR USE

**Warning:** Before using the heater make sure that it is mounted tightly on the wall. Damage may occur if it is not secured in place.





Take some time to read and understand the display and buttons before attempting to program.

## Display & Buttons






1	Time Display	8	Frost Protection
2	Weekday	9	Standby Mode
3	Program Name	10	Lock Icon
4	PROG	11	Room/SET TEMP. Display
5	PROG Mode	12	Clock
6	Comfort Mode	13	Heating Icon
7	Economy Mode	14	Programmable Time Display

## LCD Lock Explanation

If any of the buttons are not pressed within 40s, the keypad will lock (  ) automatically. To unlock the keypad, press  and  until the (  ) disappears.


## Set Temperature

Normally, the LCD displays room temperature. If you want to change the set temperature, press  or  buttons, the set temperature will flash. Using 



## JOULETHERM

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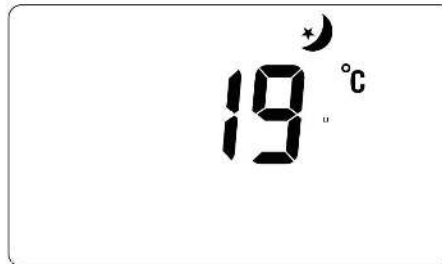
and  button again to increase or decrease the set temperature to the desired one. After 10s of non – use of the keypad the display will revert back to the selected one.

Temperature Setting Range: 5°C ~ 60°C

### Mode Temperature. Pre-set










A

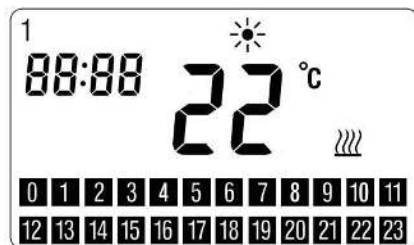


B

To set the mode temperature, use the following steps:

- (1) Press and hold  button for 5 seconds. The COMFORT mode icon display (A) will be shown. Using  and  buttons to change the temp.
- (2) Press  button. The ECONOMY mode icon display (B) will be shown. Using  and  buttons to change the temp.
- (3) Press  to save the settings.

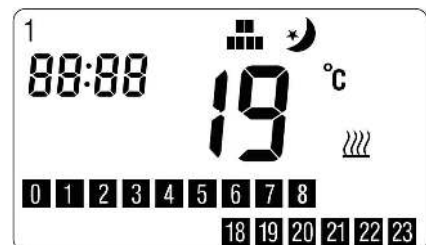
### Working Mode Selection




COMFORT



ECONOMY












PROG













To toggle between modes use  button. After selection, the heater will work according to the selection.

## Adjusting the Time and Day Setting





To set the time and day with the following steps:

- (1) Press and hold  button for around 3 seconds. The minutes (top left of the display) flashes. Using  and  buttons to change the minutes.
- (2) Press the  button. The hour (top left in the display) flashes. Using  and  buttons to change the hours.
- (3) Press the  button. The day display (top left in the display) will flash as a number. Using  and  buttons to select weekday. Use 1 for Monday, 2 for Tuesday, 3 for Wednesday, 4 for Thursday, 5 for Friday, 6 for Saturday and 7 for Sunday.

## Program Settings

- (4) Press  button, the COMFORT mode () appears on the display, the figures  flashes. Press  and  to set the hour of COMFORT Mode.
- (5) Press  Button, change Mode from COMFORT to ECONOMY () Using the  and  buttons to set the hour to your desired time. Toggle between modes to select the desired program you want to suit your heating needs.
- (6) Press the  button after selecting the desired setting for this day, it will automatically skip to next day, you have the option of skipping to other day by pressing  button.
- (7) After all days setting, Press  to save the settings.

## Parameter Settings

Under off status, press  button and  button at the same time to enter into parameter setting... Each press of  button toggles between item settings. After setting press  to log out.

No.	Item	Range	Default
01	Temp. Calibration	-8℃ ~ +8℃	0℃
02	High Temp. Limit	5℃ ~ 60℃	35℃
03	Low Temp. Limit	5℃ ~ 60℃	5℃
04	Frost Protection	5℃ ~ 10℃ --: Frost Protection OFF	5℃
05	Buzzer Sound	0: OFF 1: ON	1: ON
07	Factory Reset	0; 1( Reset)	0;

**Note:** If factory reset is required, long press PRG to activate it.

# JS10/2 Controller

This part of the manual only applies if your JOULETHERM heaters are being controlled by the JS10/2 controller.

JS10/2 is a central controller; it is 4.3inch TFT colour touch screen, giving central control up to 5 zones, max. can control 40 heaters.

## Home Page

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2-1





2-2

Power on your JS10/2 touch screen controller, the main page will display as shown in figure (2-1).

## JOULETHERM

There are five zones, select one of the zones and pair all heaters with the controller. (For ID Paring method please see ID Pairing section in this manual)

Once pairing is complete, you can see the current temperature and working mode of each room as shown in figure (2-2). If you want change setting individually, you can press  as shown in figure (3-1), or press  for group control as shown in figure (4-1)

## Individual Control



3-1



3-2

1. ON/OFF: switch on/off the heater
2. MODE: Use to select the Comfort Mode, Economy Mode or Auto (PRG.)Mode, when selected the heater will work according to pre-set temperature.
3. MENU: Use to set Auto Mode Schedule, Mode Temperature Pre-set and Frost Protection Temp. Setting.

## Group Control



Press Up Button to increase the set temp.

Press Down Button to decrease the set temp.

Return to home page as 2-1

## 4-1

Press  to switch on all the heaters or  to switch off all heaters.

**Mode Select:** you can select the mode you like, then all heaters will work according to pre-set temperature.

# Menu Setting






## 5-1: Auto Mode Schedule Pre-set



5-1-1



5-1-2

1. Before programming any heaters paired with the controller you must make sure all radiators are off. This can be done in group control by pressing .
2. Press Menu Button, and choose  button to enter My Schedule to review 7 days 24 hour programmable setting as shown in figure (5-1-1). There are a total 7 pages, Press  to select the next page.
3. Press  or  to change time and working mode. Press APPLY to save to settings.
4. Once complete, press CANCEL to return to My Schedule page for other days settings.








5-1-3

After the day's pre-set settings have been completed, and you want other heaters have the same working schedule, simply press COPY as shown in figure (5-1-3). After copying is complete, press COPY again to save, and use CANCEL to return.

5-2: Mode Temperature Pre-set






5-2-1


Press Menu then select  button to enter Mode Settings page, using  and  buttons you can select the mode and adjust its pre-setting temperature as shown in figure (5-2-1). Once complete press APPLY to save setting and return to main page (3-1).

5-3: Frost Protection Temperature Pre-set



Press Menu then select  button to enter Protection Settings page. You can set High Protection temp. & Low Protection temp. by  and  button. Once completed press APPLY to save.

## ID Pairing




1. Turn Master controller to zone page and press the zone you are going to pair (Pic.1), then long press the house ICON you are going to pair. For example, to pair the first heater with house 1. Long press this icon , the ID code will show on the screen.



Pic. 1



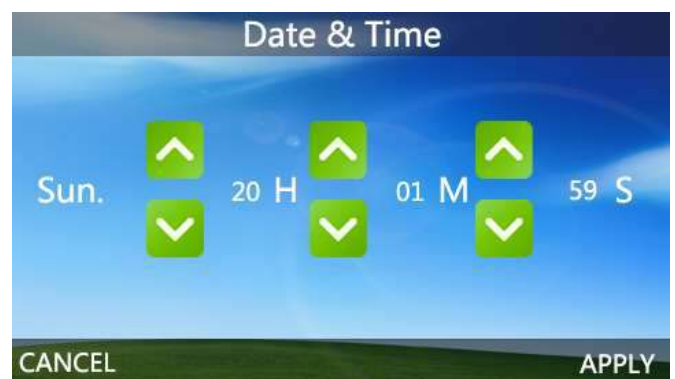
Pic. 2

2. Go to the heater you want to pair and turn heater off using the on/off button. Hold  button until the heater ID code is show on screen, then release the  button. Quickly press the  button again until you it beeps twice. The master controller ID will now display the heater ID and the two devices are now paired.

## Time & Language Setting




6-1



6-2

Press  button in picture 2-1, then you will enter a Menu page as 6-1. Here

you can select the language you like, or can press  to page 6-2 to edit date & time.

## Technical Data

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Frequency:	868 MHz
Channel selection:	By programming the thermostat and the receiver.
Switching options:	7 days 24 hour programming
Temperature settings:	5°C ~ 60°C
Certification:	CE/ROHS

## Installation

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### Step 1: Release the face plate

Place the unit face down on a hard surface, push the three clips located on the bottom of thermostat with a screwdriver to release the face plate.



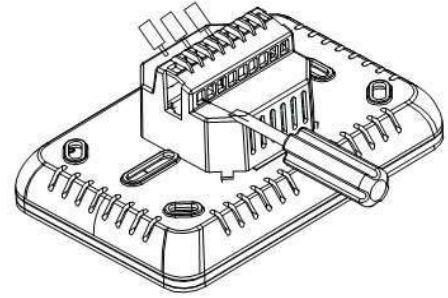
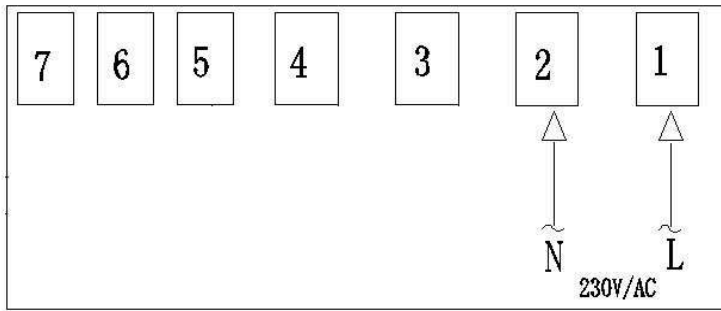
### Sep 2: Disconnect ribbon cable & remove face plate

Once the face plate has been gently opened, disconnect the ribbon cable to release the face plate.

### Step3: Mount base plate to a suitable back box (47mm)

Terminate the live conductor and neutral conductor into the terminals market and fix the back plate to the back box using 3.5mm machine screws. The unit must be protected by a fused isolating switch rated at 3 Amps. Failure to do this will void any warranties. Once all terminations are made, connect the ribbon cable back onto the back plate and clip the front plate on.





## Size

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Front(unit:mm)	Thickness (unit:mm)	Mounting Hole (unit:mm)

## MAINTENANCE

1. Always allow the heater to cool down before cleaning it.
2. Wipe the exterior surface of the heater occasionally with a soft damp cloth (not dripping wet) and dry the exterior surface before operating the heater.

### **WARNING:**

**Do not immerse the heater in water.**

**Do not use any cleaning chemicals such as detergents and abrasives.**

**Do not allow the interior to get wet as this could create a hazard.**

**Light accumulated may be removed from the heater with a soft dry cloth.**

**To store away the heater, put the heater back into its original package and store it in a clean dry place.**

**In case of malfunction or doubt, do not try to repair the heater yourself; it may result in a fire hazard or electric shock.**

## CONFORMITY WITH DIRECTIVES

This product is CE marked to denote conformity with Directives 73/23/EEC (Low Voltage) and 89/336/EEC (Electromagnetic Compatibility), as amended.

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.



## Warranty and Returns:

The JS10/2 Controller is covered by a two year warranty when installed by a trained engineer. The electronic control panels on all JouleTherm are also covered by a two year warranty. The ceramic plates and body of the radiator are covered by a 10 year working guarantee. The warranty only covers the unit in the event it fails to work during that period. The unit is not covered under warranty should there be any defects or damage to it. All warranties issues should be made in writing to the address below. They can also be made via email to the email address below. Warranties will only be adhered too upon receipt of the goods to the address below and the final decision is at the discretion of the Ecovolt Engineers