

BOBIL VANS ELECTRIC WATER HEATER

ELEMENT RESET INSTRUCTIONS





Important Safety Instructions! Please save these instructions!

This manual contains important safety, installation, and operating instructions for the Bobil Air Electric Internal 12V/230V elements.

The manufacturer accepts no liability for damage by:

- Incorrect assembly.
- Damage resulting from mechanical influences or excess voltage.
- Modification or tampering with the unit without expressed permission from the manufacturer.
- Used for purposes other than described in this manual.

General safety

- Firmly secure all cables and hoses.
- In the event of product failure, do not attempt to repair the water heater. Inadequate repairs may cause serious injury.
- Electrical devices are not toys - keep away from children.
- Disconnect the product from the battery and mains power each time before cleaning or maintaining the heater.
- This product is for 12V battery banks and 230V AC circuits only. Make sure your voltage specification is within the input voltage range expressed.
- Install and store the product in a dry and cool place.
- Keep electronics away from liquids!
- Do not use the product if physically damaged or with visibly perished hoses.

Installation

- Ensure secure location where it cannot tip or fall.
- If necessary, verify installation with a qualified electrician or installer.
- Do not use a water pump with a pressure exceeding 20psi.
- Lay cables so they cannot be damaged or be a tripping hazard.
- Do not operate in salty, wet, or damp environments; in the vicinity of corrosive fumes; in the vicinity of combustible material; in areas with risks of explosions.
- Ensure proper cable sizing for currents generated.
- Over-current protection devices should be on the positive line.

Thank you for buying our products!

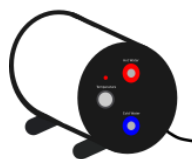
Small businesses like ours only exist because of the support of our customers. We appreciate you purchasing from us, and hope that you have a great experience.

If you have any installation questions or queries then just get in touch, we're here to help.
Contact us at info@bobilvans.co.uk or on the phone at +44 1275 261074

Bobil Electric Water Tank – Elements Explained

The Bobil Electric hot water tank has a choice of electric elements inside the tank, depending on the options you chose when purchasing your order. These are:

1. 230V AC Element (800W)
2. 12V DC Element (200W)
3. 230V and 12V elements (dual voltage)



- 230V AC element (800W): This will be connected to the 3 core white cable from the tank.
- 12V DC element (200W): This will be connected to the red and black wire from the tank.
- If you have a dual voltage tank, you should have all 3 of these wires.

As a safety, these elements have a built-in cutoff whereby if the temperature inside the tank reaches above 90C, this safety will trip and disable power to the element(s) to prevent water boiling inside the tank. This will result in the element being unable to power on.

There are a few ways in which an element can trip:

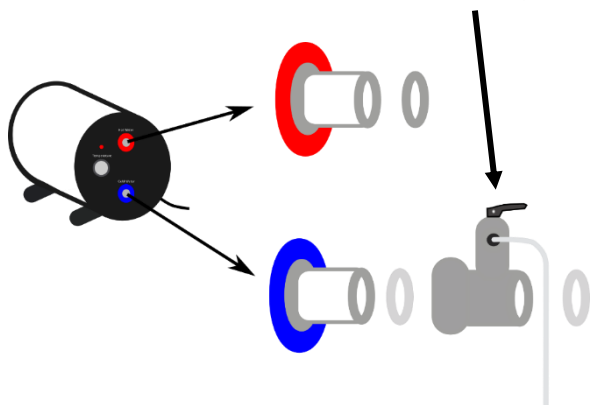
1. If you have a manual switch on the DC element to turn it on/off, there is no temperature cutoff to automatically turn off the 12V element, so if the water temperature reaches 90C, this can cause the 12V element to trip.
2. If there is no water inside the tank, and you try to turn the element on, this will raise the internal temperature very quickly and cause the element(s) to trip.
3. It is possible that during installation or delivery that the elements tripped by accident (very rare).
4. If there is a fault in the temperature probe or incorrect setup of the controller, this can result in the element(s) tripping due to a faulty temperature reading.
5. If the tank has been mounted vertically, then this can cause the water to incorrectly mix inside the tank, causing the element(s) to trip.
6. External water ingress has caused corrosion to the element(s) causing an internal short and for the element to trip, or simply not work due to damage.



When the element(s) trip, the red light on the outside of the tank will not light up when the correct power source is applied directly to the element. If this is the case, then you will need to open the tank and reset the elements manually.

Getting to the Element(s)

1. **DISCONNECT POWER:** Please disconnect all wires to the Bobil Electric water tank. This includes 12V lines, 230V lines and temperature sensors. Please also turn off or disconnect power from your main water pump and isolate the Bobil system from your main plumbing system if you can.
2. **EMPTY TANK:** By getting a small screwdriver, unscrew the screw holding down the black handle on the drain valve, located on the cold water inlet of the tank.



Lift this handle up and allow the tank to drain completely. The small drain pipe on this drain valve can be directed into a bucket, into a grey tank or simply out the van. Allow gravity to empty the tank.

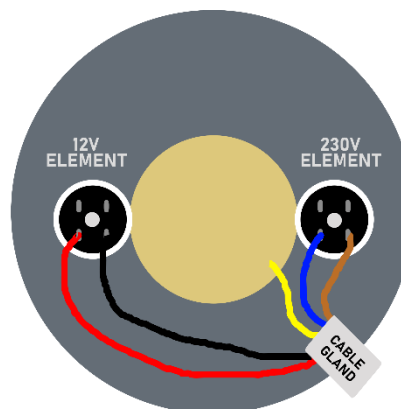
3. **REMOVE TANK:** With the tank completely disconnected from power and drained, you can unscrew the plumbing fittings from the cold water and hot water outlets on the tank. There will probably be some residual water that will come out when these are unscrewed so be sure to have a towel underneath to catch this. Unscrew the feet of the tank and remove the tank from its mounted position.
4. **UNSCREW FACEPLATE:** Place the empty and disconnected tank onto a work surface and carefully unscrew the 4 front screws holding the front faceplate onto the tank. With these removed, the front of the tank should come off. **Be careful not to snag the temperature cable (poking out the cold water inlet) as you remove this front faceplate.**

With the front plate removed, this will be the view inside the tank.

Actual View



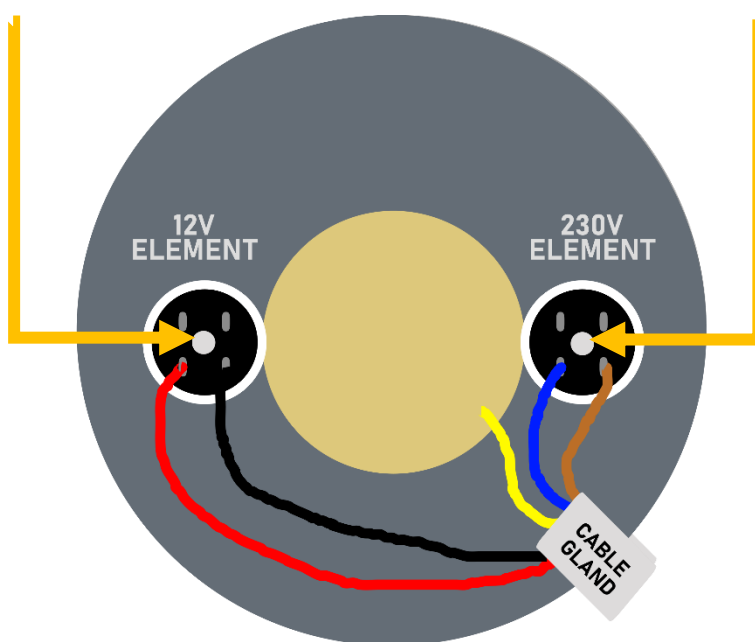
Simplified View



Resetting the Elements

Depending on the tank version, you will either have just the 230V element (right), just the 12V element (left) or both elements. Each element is independent and have their own safety resets. **If there is any corrosion on the elements themselves, any disconnected wired, or surface water coating these electrics, stop immediately and contact us.**

On top of each element, there will be a grey circular button. This is the safety reset.



Clicking this button will reset the element. If you have the dual voltage tank, we recommend resetting both elements, even if only 1 was not working.

With the elements reset, you can reassemble the tank and your plumbing by following the disassembling steps in reverse. Once you have the plumbing connections fitted, please turn on your water pump to pressurise/fill the Bobil electric tank **BEFORE** connecting the elements to power. This will not only ensure there are no leaks but will prevent the elements being turned on without water inside the tank.

You may need to reset the parameters of your water heater controllers once reconnected to power (please refer to the original instruction manuals for this, or our website under “downloads”) and you should have electric water heating up and running.

If you have any questions about your installation, or any further issues please email us at info@bobilvans.co.uk



We would love to know what you think!

Please let us know by leaving a review through the link sent through when you made your purchase, or email us at info@bobilvans.co.uk!

You can also share photos of your installation on the 'Bobil Water Heater Users', Facebook page, we'd love to see them!

www.bobilvans.co.uk

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