



**2200W PTC element (230V)**  
*installation and operating manual*

## Warranty conditions apply

1. We, Geysewise CC, warrant to you that, for a period of six (6) months from the date of purchase, the Geysewise 2200W PTC element (230V) (the "goods") will be free of any defect.
2. If any defect in the goods is discovered by you within six (6) months from date of purchase, you can return the goods to our service centre or to one of our duly authorised service agents. We will then, at your option –
  - 2.1 repair or replace the goods; or
  - 2.2 refund to you the price paid by you for the goods.
3. A goods returned under this warranty must be presented to us in its original packaging together with all accessories.
4. We will refuse the return of any goods which has been –
  - 4.1 partially or wholly disassembled;
  - 4.2 physically altered;
  - 4.3 used in a manner contrary to any instructions provided by us; or
  - 4.4 permanently installed or attached and/or combined with other goods or property in any way.
5. We will not –
  - 5.1 repair the goods where the defect or damage to the good is found to be a direct result of your negligence, recklessness or malicious behaviour; and/or
  - 5.2 be liable for damage caused to the goods as a result of wear and tear unless such damage manifests itself –
    - 5.2.1 within 12 months from date of purchase (where the goods has been used for normal family, personal or household purposes); or
    - 5.2.2 six (6) months from the date of purchase (where the good has been used for commercial or professional purposes).
6. Where we issue a refund under this warranty, we will deduct the charges we are allowed to deduct under the Consumer Protection Act, No 68 of 2008.

## Components

### Element

Universal element for screw boss and flange type geyser. Please note a different version is available for Exstream **geysers**.



### Flange

In case of a flange type geyser, as separate flange must be purchased to accommodate for **the** thermostat.



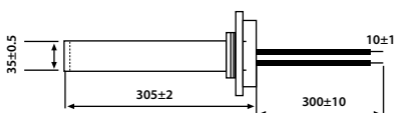
## Areas of use

To be used in electric immersion heaters.

## Technical specification

Resistance at 25°C ( $\Omega$ )	30-100
Material	Titanium ta2
Rated Voltage (V)	230
Max Voltage (V)	265
Inrush Current (A)	$\leq 17$
Surface Temp. ( $^{\circ}\text{C}$ )	$240 \pm 10$
Power (w)	$2200 \pm 10\%$
Length (mm)	$305 \pm 2$
Diameter (mm)	$\varnothing 35 \pm 0.5$

## Dimensions



## Installation precautions

Installation, maintenance and dismantling may only be performed by trained personnel in accordance with this instruction manual and safety instructions. Use the Geyserswise 2200W PTC element (230V) only after first thoroughly reading and understanding this instruction manual and the safety instructions. In the event of any ambiguities regarding the installation and operation, consult trained personnel or contact our offices.

An installer should always take precautions when working with electricity. The most important safety precautions to perform **BEFORE** doing any maintenance on a geyser are:

- 1 Switch off circuit breaker** of geyser at main DB. This is done to ensure that there is no power supply to the geyser.



- 2 Switch off isolator switch** in the roof. The isolator switch acts as a switch to isolate both live and neutral from the main supply should someone accidentally switch on the main supply or the circuit breaker fall.



- 3 Test with a MULTIMETER** to ensure that there is no current on the wires. **IMPORTANT!** Make sure that there is no reading on the multimeter.



Drain the geyser and remove the old element only after the necessary safety precautions are taken.

## Exclusion of liability

The manufacturer cannot monitor the compliance to this manual as well as the conditions and methods during installation and operation. Improper installation of the system may result in damage to the property and as a result, in bodily injury.

Therefore, we assume no responsibility for loss, damage or costs which result from or are in any way related to incorrect installation, improper operation, incorrect execution of installation work and incorrect usage and maintenance.

Please note that our normal warranty does not cover any natural disasters, for example:

- Flooding
- Lightning
- Earthquakes

The manufacturer reserves the right to make changes to the product, technical data or assembly and operating instructions without prior notice.

## Installation

### Screw in elements

Tools needed:

- Phillips screwdriver
- Screw-in element wrench
- Your new element
- Garden hose
- Volt meter or circuit tester (to make sure power is off)

**Be sure to use the same wattage, voltage, and flange style as your previous element.**

1. Shut **OFF** electric power to water heater.
2. Shut **OFF** cold water supply to water heater, open hot water faucet, attach hose to drain valve, open drain valve on water heater and drain water.
3. Remove access cover and fold back insulation.
4. Remove plastic terminal protector.
5. Check wires with volt meter/circuit tester for power before attempting to remove the wires.
6. Disconnect electric wires from element.
7. Remove element using screw-in element wrench.
8. Clean gasket area and threads.
9. Install gasket on element.
10. Install element & tighten with wrench.
11. Close drain valve and turn **ON** cold water supply.
12. Allow all trapped air to escape from open hot water faucet until water has a constant flow, then close hot water faucet.

**If leakage occurs, shut OFF cold water supply and tighten element or reposition gasket.**

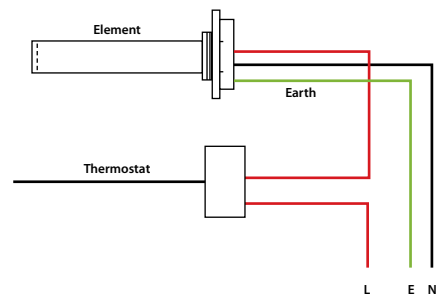
13. Inspect wiring. If corrosion is present on wiring, cut and strip wire 1/2" (only if wire is long enough). If corrosion is still present, or wire is not long enough consult electrician for wire replacement and wire gauge selection.

**Loose, corroded or fault wiring connections can cause heat buildup or fire at wiring terminals.**

14. Connect electric wires to element. Tighten screws.
15. Replace plastic terminal protector.
16. Replace insulation and access cover.

**Tank must be properly filled with water and free of air before applying electric power to prevent element damage.**

17. Turn **ON** electric power to water heater.



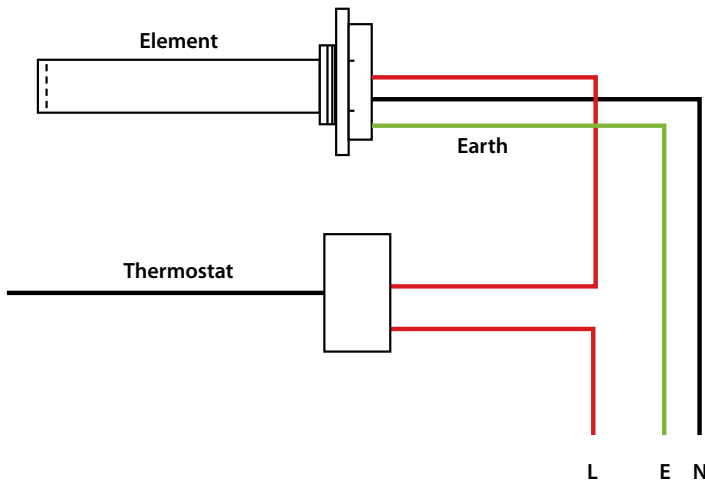
### Flange type element

Tools needed:

- Phillips screwdriver
- Socket wrench
- Your new element
- Garden hose
- Volt meter or circuit tester (to make sure power is off)

**Be sure to use the same wattage, voltage, and flange style as your previous element.**

1. Shut **OFF** electric power to water heater.
2. Shut **OFF** cold water supply to water heater, open hot water faucet, attach hose to drain valve, open drain valve on water heater and drain water.
3. Remove access cover and fold back insulation.
4. Check wires with volt meter/circuit tester for power before attempting to remove wires.
5. Disconnect electric wires from element.
6. Remove element mounting bolts using socket wrench. Note position of thermostat bracket to be reinstalled later.
7. Clean gasket area in tank.
8. Install gasket into recess in tank.
9. Install element and thermostat bracket. Tighten bolts in diagonal pattern.
10. Close drain valve and turn **ON** cold water supply.
11. Allow all trapped air to escape from open hot water faucet until water has a constant flow. Close hot water faucet.



**If leakage occurs, shut OFF cold water supply and tighten bolts or reposition gasket.**

12. Secure thermostat firmly against tank surface and under prongs of thermostat bracket.
13. Inspect wiring. If corrosion is present on wiring, cut and strip wire 1/2" (Only if wire is long enough). If corrosion is still present, or wire is not long enough consult electrician for wire replacement and wire gauge selection.

**Loose, corroded or faulty wiring connections can cause heat buildup or fire at wiring terminals.**

14. Connect electric wires to element. Tighten screws.
15. Replace plastic terminal protector.
16. Replace insulation and access cover.

**Tank must be properly filled with water and free of air before applying electric power to prevent element damage.**

17. Turn **ON** electric power to water heater.



### **CAPE TOWN**

**postal address** Post Net, Private Bag X103, Suite 239, N1 City, 7463

**physical address** 151 Cook Street, Goodwood, 7460, Western Cape

**tel** 086 104 3973 • **fax** 086 664 3973

### **PRETORIA**

**physical address** Unit 5 Edison Park, 183 Edison Crescent,  
Hennopspark, Centurion, 0172

**tel** 012 653 1020 • **fax** 086 297 9402

**email** [info@geyserwise.co.za](mailto:info@geyserwise.co.za) • **web** [www.geyserwise.co.za](http://www.geyserwise.co.za)

**reg no** 2004/083059/23 • **VAT no** 4550224515