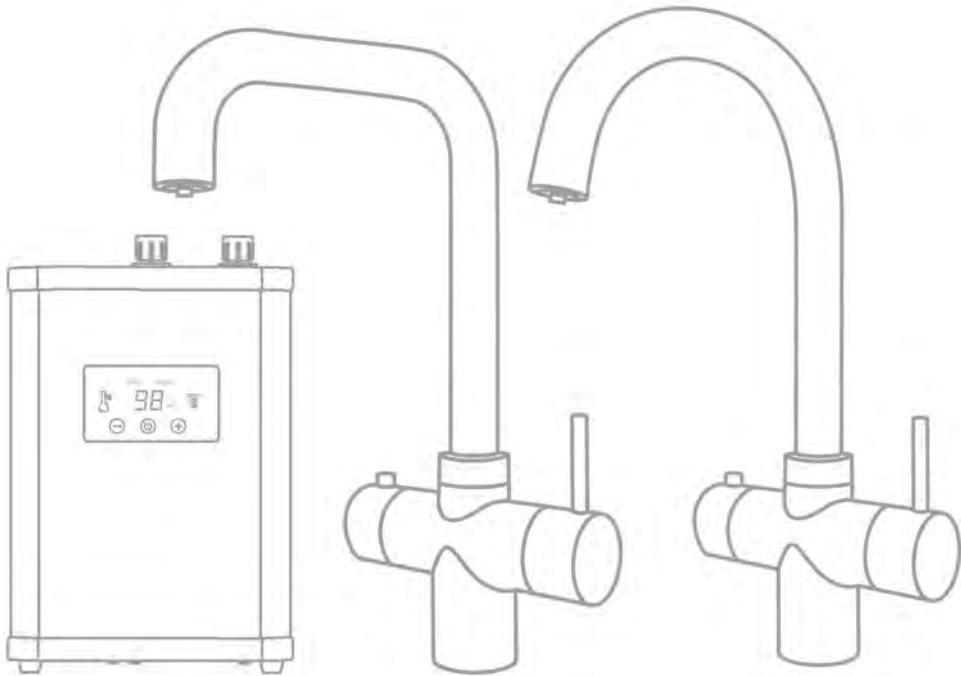




Product Instruction Manual

Sigma



SIGMAS, SIGMAQ, SIGMASBN, SIGMAQBN
3 in 1 Boiling Water Tap

Overview

Thank you for purchasing a Sigma 3 in 1 Boiling Water Tap. This provides near boiling 98°C water and standard kitchen hot and cold mixer capabilities from a single tap. This makes it ideal for retro-fit applications as well as new kitchens.

The Sigma consists of a tank that is installed under the sink, your chosen Sigma tap (swan or square neck), a scale filter which must be installed and complete installation kit.

Each Sigma tap incorporates a safety lock on the boiling side with spring back tap handle to prevent inadvertent dispensing of boiling water.

This appliance is intended to be used in household and similar applications such as staff kitchen areas in shops, offices and other working environments.

Please fully read these instructions before commencing installation and follow to ensure that installation and operation are simple and safe.

1. Important Safety Points



This appliance can be used by children aged from 12 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.



Very vulnerable people are not expected to use the appliance safely unless continuous supervision is given.



Do not install the appliance if it appears damaged in any way.



The appliance is intended for open outlet use only, only connect to the supplied tap as per these instructions.



Only connect the appliance to a single-phase supply as specified on the rating plate.



Due to the vented nature of this appliance, the tap may drip occasionally during the heating cycle.

-  This appliance dispenses boiling water.
-  The appliance must be placed on a flat surface where it will not be knocked over causing damage to the water hoses or electrical connections.
-  The appliance must not be used in an area subject to flammable vapours such as paint, solvent or petrol.
-  This appliance is not suitable for outdoor use or in damp conditions.
-  Do not use in ambient temperatures exceeding 35°C.
-  Do not modify or misuse the appliance in any way or serious injury could occur.
-  Do not install the appliance in environments likely to be exposed to freezing conditions.
-  The Sigma must be installed and maintained by a competent person in accordance with current electrical and plumbing regulations.

2. Box Contents

Electric instant boiling water tank and kettle lead with 13 amp UK plug

Sigma tap with silicone tube fitted

Tap assembly, parts A- E - as shown in diagram 1

Taste, odour and scale filter

Hot flexi hose (red braiding)

Cold flexi hose (blue braiding)

Flexi hose labelled 'tap to filter'

Flexi hose labelled 'filter water to boiler'

Fixing nut

Barbed outlet connector

Red washer

3. Installation

Important Information



The appliance is intended for open outlet use only, only connect to the supplied tap as per these instructions.

Ensure the tap is installed with the mixer tap handle on the right, when stood facing the tap.

The installation environment should be adequately ventilated. When installing the appliance, provide approximately 10 - 15cm of air space on the sides of the boiling water tank for air circulation and approximately 2.5cm from the back wall.

The tank must be sited vertically and level on a flat surface.

As the appliance is not under pressure there is a slight delay in water flow after the boiling water tap handle has been turned on. This is normal.

The supplied scale filter must be fitted and changed at least every 6 months, otherwise the lifespan of the product could be seriously reduced and the warranty will be void.

A pressure reducing valve is required if the mains pressure is above 0.5 MPa (5 bar).

Step 1 - Prepare and Site the Tap

- Choose a suitable location to mount the tap, this may be an existing hole in your sink or worktop.
- If a new hole is required check that there will be enough room for the mixer lever to operate and that the reach of the spout will be appropriate for your sink before drilling the tap hole in the sink or worktop. Required hole diameter 32 mm - fits in a standard sink.
- See diagram 1 for parts A - E
- Take part A. Feed the tap connector ends of the hot (red) and cold (blue) hoses and the hose labelled 'tap to filter' upwards through part A.
- Feed the silicone tube attached to the tap downwards through part A. (Do not screw part A into the tap base yet).
- Connect the tap connector ends of the hot (red) and cold (blue) hoses to inlets inside the tap labelled H and C by turning clockwise until a full stop is reached.

- Connect the male thread of the hose labelled 'tap to filter' to inlet inside the tap labelled T by turning clockwise until a full stop is reached. (This is the inlet to the right of the T label. The inlet on the left is not required).
- Turn threaded stem of part A clockwise into the base of the tap.
- Feed all hoses through part B and then locate part B into the corresponding ridge at the base of the main tap.
- Feed hoses through the hole in sink/ worktop.
- Working on the underside of the sink/ worktop, feed all hoses through part C (rubber washer) & D (steel washer) and then locate parts C & D over part A.
- Remove screws from part E, place to one side. Place part E around hoses under the worktop. Thread this clockwise onto part A to secure all other parts and tap in place.
- Replace screws into part E and tighten with a screwdriver. This will secure the tap in desired position.

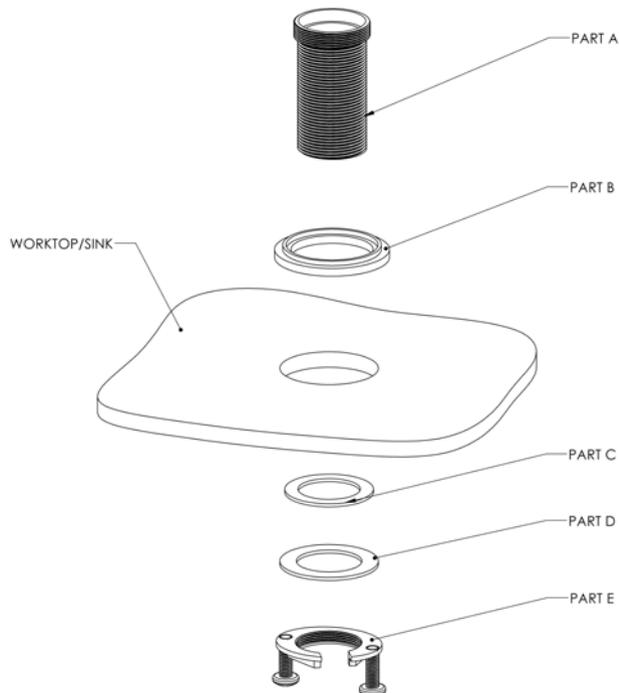


diagram 1

Step 2 - Connect the Filter



Do not locate the filter above an outlet or other electrical device.

- Remove protective cover from the filter cartridge. Unscrew the filter housing from the filter nut. Insert filter cartridge into the filter housing (see diagram 2) so the cartridge inlet slides into the port of the filter nut. Ensure the black o-ring is inside the filter nut. Screw the filter housing back on to the filter nut.

(To replace the filter cartridge after installation ensure instructions in the 'replace filter cartridge' section are followed).

- Consider the length of hose when selecting filter location (diagram 3 shows the installation layout).
- Position the filter to ensure hoses will reach from the tap and to the tank. Fix mounting bracket to the wall. Ensure easy access for future maintenance. Ensure that the hoses are not stretched, kinked or twisted.
- Detach the blue collars from the inlet and outlet of the filter.
- Connect hose labelled 'tap to filter' to filter inlet labelled 'in', this is a push fit connector. Replace blue collar to the filter inlet to prevent accidental disconnection.
- Connect hose labelled 'filter water to boiler' to filter outlet labelled 'out', this is a push fit connector. Replace blue collar to the filter outlet to prevent accidental disconnection.

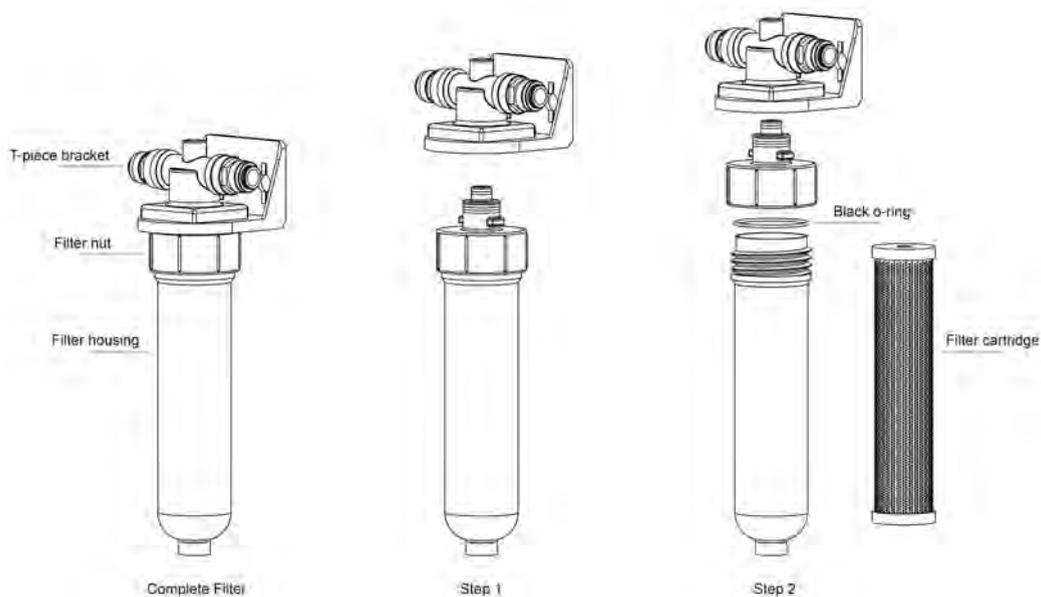


diagram 2

Step 3 - Prepare Water Connections



Only connect the appliance to supply pressures between 0.15 MPa – 0.5MPa (1.5 - 5bar).

- A pressure reducing valve is required if the mains pressure is above 0.5 MPa (5 bar).
- Unscrew blue cap and remove clear washer from inlet to boiling tank. Connect remaining end of hose labelled 'filter water to boiler' to the blue inlet of the boiling water tank. (Unscrew the yellow cap first and ensure the gauze beneath is used on the inlet connection to prevent debris entering the unit).
- Unscrew red cap and remove clear washer from outlet to boiling tank. Take the red washer, barbed outlet connector, fixing nut and connect to the red outlet of the boiling water tank as per diagram 3.
- Push the clear silicone tube, which is already attached to the tap, fully onto the barbed connector. (Place the tube in a cup of hot water to soften to make connection easier if needed). Check this is secure.
- Ensure the silicone tube is not kinked or bent in any way as it will pressurise the tank.
- Connect the hot (red) and cold (blue) hoses which are already attached to the tap to the hot and cold mains supply of the building (connection required 1/2" male BSP, not supplied). A dedicated control valve should be installed on the hot and cold mains supply in a convenient position to facilitate future maintenance.

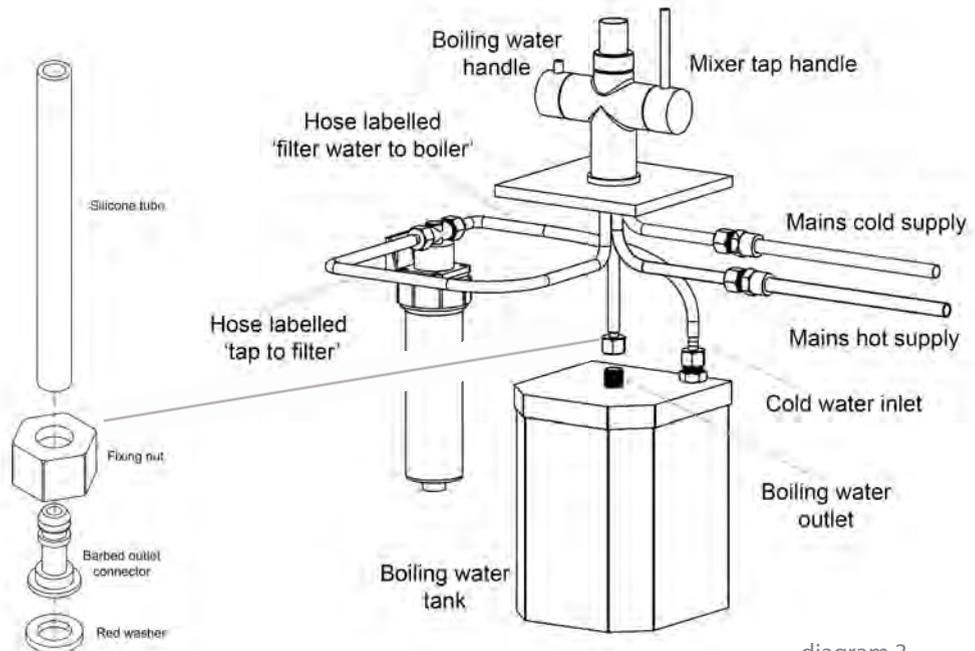


diagram 3

Step 4 - Commission and Check Water Connections

- Before plugging the tank into the power socket, the system must be full of water and tested for leaks. Open all water valves to allow water to flow to the instant boiling water tap.
- Depress the small button and turn the spring back instant boiling water handle and hold to fill the tank, this will take approx 1 - 2 minutes. When the tank is full, water will flow from the instant boiling water tap spout. Check water flows smoothly from the tap to ensure all air has been purged from the system.
- Turn the instant boiling water handle off and check all connections for any sign of leaks.
- To test mixer side of tap, pull large lever on the right side away from the body of the tap. Rotate both ways to dispense hot and cold mains water. Check all connections for any sign of leaks.
- Check that all hoses and silicone tubing are not twisted or kinked as this will pressurise the tank. Any leaking joint must be tightened to rectify, and the above procedure undertaken again before connecting to the power socket.

Step 5 - Electrical Connection



Ensure tank is full of water and flushed through before plugging the appliance into the power outlet.

- Ensure that the installation area is dry. Connect the kettle style lead to the tank then plug into the power outlet and switch on. Do not use an extension cable.
- Press and hold the ON/ OFF icon to switch the tank on, the display panel should light up. The display panel will now show the current tank temperature. Proceed to 'operating the tank' section for further instructions.

4. Operating the Tap

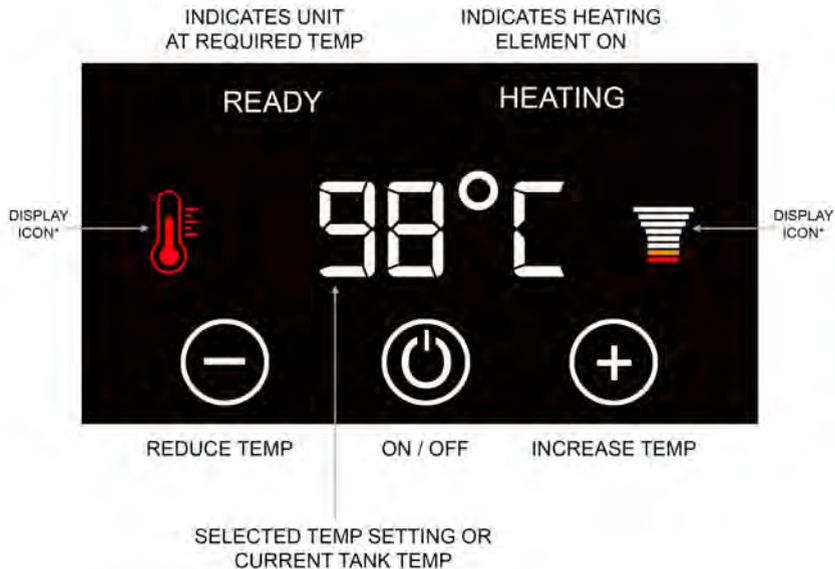


If the appliance splutters and steams excessively from the tap, the temperature setting should be reduced.

- For instant boiling water depress the small button on left hand side of the tap. Keep the button pressed down and rotate the handle towards yourself.
- As the appliance is not under pressure there is a slight delay in water flow after the boiling water tap handle has been turned on. This is normal.
- For standard hot and cold mixed water, pull the large lever on the right side away from the body of the tap. Rotate forwards to dispense mains hot water and backwards for mains cold water.

5. Operating the Boiling Tank

-  ON/ OFF power control
-  Reduce temp, choose from a number of settings up to 98°C
-  Increase temp, choose from settings as above



* Display icons have no functionality, they are for display purpose only.

- Press and hold the ON/ OFF icon to switch the tank on, the display panel will light up.
- Press the increase/ decrease temperature button to select required temperature setting. On first use the temperature will default to 90°C. The maximum temperature setting is 98°C.
- When choosing the required temperature using the increase/ decrease button the desired temperature will show on the display and remain there for approx. 8 seconds.
- Following this 8 second period the temperature which is displayed will revert to the current tank temperature.
- The tank will display the icon 'heating' when the element is on. Once the desired temperature is reached the icon 'ready' will appear. The tank will take approximately 10 minutes to heat up to 98°C from cold.
- Please note that the tank will make a sound like a kettle boiling water whilst heating. This is normal.

6. Maintenance



Before conducting any user maintenance, the appliance should first be isolated from the electrical supply by removing the appliance plug from the electrical outlet.



Before conducting any maintenance run the boiling tap until it is dispensing cold water. Allow time for tank components to cool.



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



If the unit is unused for extended periods of time, it should be unplugged and drained.



If there is any risk of the installation environment dropping below freezing the appliance should be switched off and drained.

- Replace the filter cartridge at least every 6 months. This is imperative to protect against scale build up. Failure to do so will void the warranty.
- Regularly inspect the appliance for any signs of water leaks or damage. If a leak or damage is discovered, discontinue use, isolate the water supply and drain down immediately. Contact the manufacturer.
- The tap and water tank can be cleaned with a lint free damp cloth. Do not use any abrasive or caustic cleaning products as this will damage the surface of the product.

7. Replace Filter Cartridge

To replace the filter cartridge it is important that you follow the steps below in the correct order (see diagram 2). Before commencing place bowl under filter to catch any small escape of water.

Replace the filter cartridge at least every 6 months. This is imperative to protect against scale build up. Failure to do so will void the warranty.

1. Grip t-piece bracket with one hand and ridged filter nut in other. $\frac{1}{4}$ turn clockwise to release filter nut from bracket. This is the auto shut off head which isolates filter nut and housing from bracket. Check that no water is escaping from the t-piece bracket.
2. Over a sink bowl grip ridged filter nut in one hand and filter housing in other. Unscrew filter housing and tip to remove old cartridge. Unwrap new cartridge and place in filter housing so cartridge inlet slides into port of filter nut.
3. Ensure the black washer is inside the filter nut. Screw the filter housing back into the filter nut. Finally reverse step 1 and push head of filter nut into t-piece bracket and $\frac{1}{4}$ turn anticlockwise to re-connect to water supply.

8. Draining

Do not connect to electricity supply without re-filling the tank, checking for leaks and purging any air out of the system.

- Unplug the unit from the electricity mains.
- Run the boiling tap until it is dispensing cold water. Allow time for tank components to cool.
- Turn off water supply. Disconnect the inlet supply to the tank and remove the silicone hose outlet pipe. Lift the tank to the sink, turn upside down and drain all the water from the tank.
- When re-installing follow the original installation instructions.

9. Troubleshooting		
Problem	Likely Fault(s)	Solution
Water and steam spitting from tap	Unit is boiling	Reduce the water temperature on the tank display to a lower setting Check aerator is not blocked by unscrewing tap nozzle. Aerator should be detached from silicone tube and cleaned if required.
Unit not heating	Issue with power supply	Make sure the fuse has not blown, or circuit breaker tripped
Unit not heating	The electronic display has not been powered up	Turn on power and touch the on/ off button, set the required temperature using + or - button
Dispensed water is too hot	Water temperature setting on display panel is set too high	Reduce required temperature using - button
Water is dripping from the tap	The expansion chamber isn't draining the system correctly due to very small draw off of water	Draw off 0.5L of water to clear and prime the system. Avoid less than 150ml draw offs of water
Slow flow from the spout	Water filter may be blocked from impurities in the inlet mains water	Replace filter cartridge
Water does not flow straight away	The appliance is designed for non-pressurised operation which will cause a slight delay before water is dispensed	No action required
No water coming from the tap	Water valves have been shut off	Check all the valves are open
No water coming from the tap	Inlet pipes have been twisted or blocked	Ensure the pipes are not twisted or kinked to restrict flow Check aerator is not blocked by unscrewing tap nozzle. Aerator should be detached from silicone tube and cleaned if required.

10. Specifications

Supply	230V ~ 50Hz
Power	1.5 kW
IP rating	X4
Tank capacity	2.4 litres
Immediate draw off	1.7 litres
Minimum supply pressure	0.15 MPa (1.5 bar)
Maximum supply pressure	0.5 MPa* (5 bar)
Hot and cold connections	1/2" BSP
Approvals	CE

* If pressure is above 0.5 MPa (5 bar) then a pressure reducing valve is required



INFORMATION FOR CORRECT DISPOSAL OF THE PRODUCT IN ACCORDANCE WITH THE EUROPEAN DIRECTIVE 2002/96/E.

At the end of its working life this equipment must not be disposed of as household waste. It must be taken to a local authority waste collection centre or to a dealer providing this service. Disposing of electrical and electronic equipment separately enables its components to be recovered and recycled to obtain significant savings in energy and resources. In order to underline the duty to dispose of this equipment separately, the product is marked with a crossed out dustbin.

11. Guarantee

This product is covered by a standard parts or replacement warranty for a period of 12 months from the date of purchase. If there is a manufacturing defect within the warranty period we will send spare parts, repair and return the unit or, at our discretion, supply a replacement product. Incorrect installation, frost damage, the consequences of limescale deposits or failure to follow correct operating and maintenance instructions are excluded. Consequential costs such as labour charges or damage to fittings and surroundings are expressly excluded.

12. Contact Us

If you experience a problem with this product you should first contact our service department on 01924 225 200 before taking any further action. Experience has shown that issues can often be resolved without the need to return or uninstall the product.

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