



Rinnai Nexus

**System efficiency solutions**

**Rinnai**

## Why the Rinnai Nexus system?

The **Nexus** system is the link between the high efficiency Rinnai water heaters and complete system efficiency.

The Nexus is based on patented technology proven to help reduce limescale build up.

Installing a Nexus water conditioner will prevent hard water (limescale) damage, whilst optimising the performance of the Rinnai water heaters.

## The Problem

Everyday the size of limescale deposits are increasing in the buildings throughout the UK. At an unknown point in time, this will have an overwhelming effect on the plumbing system.

### **Limescale in the UK causes the following avoidable issues:**

- Energy usage is increased which means you will miss energy reduction target, system performance reductions will cost you more money and waste vital resources
- Pipelines slowly scale up, reducing pipe diameter and flow
- Sudden premature mechanical failure of key equipment means aggravation, unexpected costs and unhappy clients
- Legionella prevention becomes harder to manage leading to increased treatment costs or potential compliance issues
- Cleaning takes longer increasing down time
- System efficiency and lifetime cost are increased significantly.

## The Solution

**Nexus** is a patented galvanic and electrolytic solution in a self-cleaning package. In the process, minute amounts of high-purity zinc ions are released and react with calcite.

Calcite crystals are modified into adhesion neutral aragonite, which is simply discharged into the water. Different to other water treatment units the Nexus operates without current, chemicals or magnets.

The two swirling chambers upstream and downstream agitate the water responsible for the self-cleaning effect of the Nexus.





## Nexus - The permanent water conditioner solution

There are both **temporary** and **permanent** water conditioner solutions available.

The permanent “chemistry” based solutions offer long term peace of mind. Whereas “Physics” based temporary solutions are susceptible to rapid degradation and physical situations may quickly reverse the effects.

You can also use a water softener. However, they come with the following disadvantages:

- It will need to be kept topped up with salt, serviced and cleaned regularly
- There is an increased biological risk
- You don't have potable (drinking) water
- There is increased corrosion risk

When using a permanent water conditioning device like the nexus everything that was in the water before the treatment is still there afterwards.

Nothing is added i.e. Salt, none of the health minerals are removed and ongoing costs are saved.

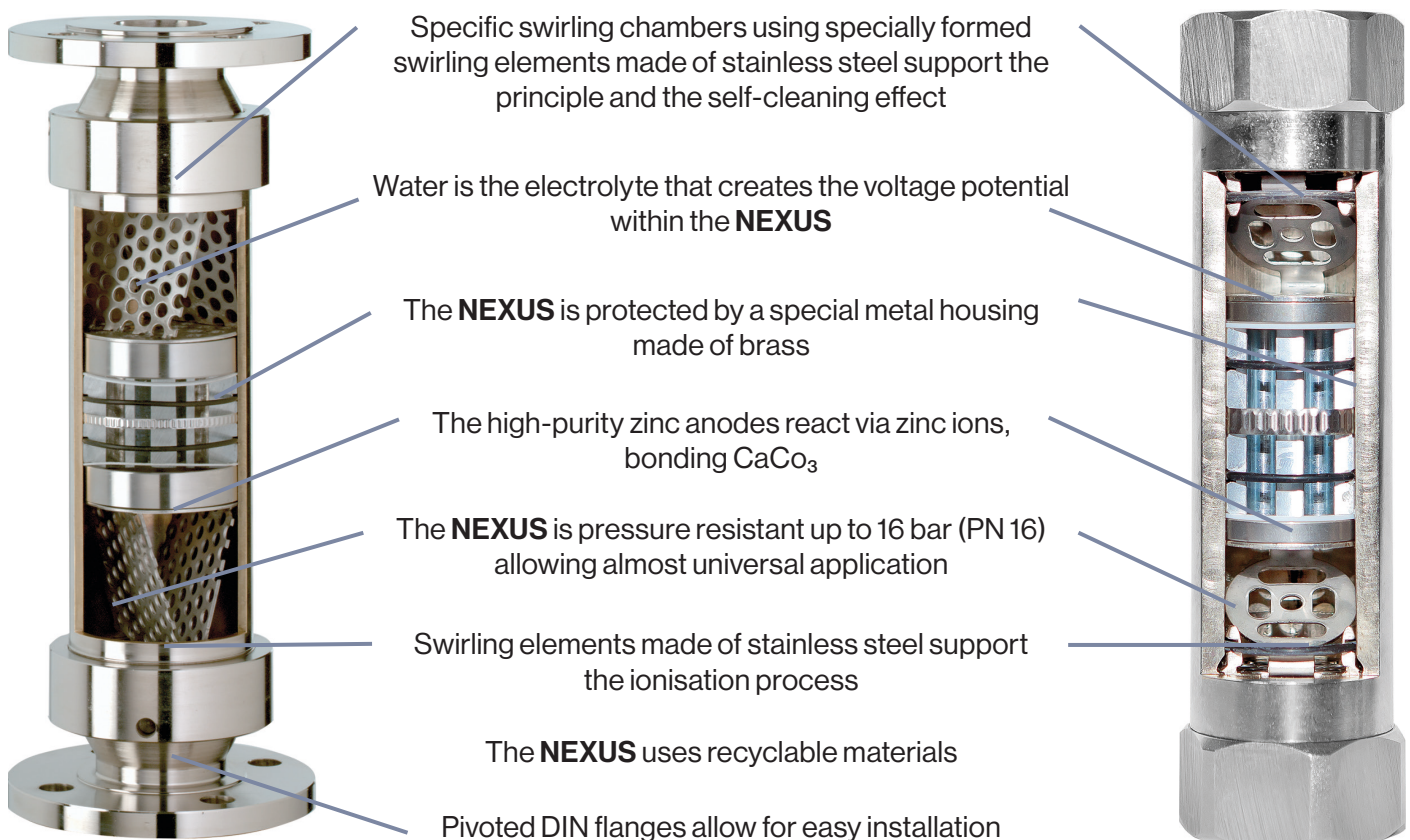
The limescale is simply modified into a non-adherent state.



## The Benefits of the Nexus Solution

- Always active, so no reliance on staff on the ground
- No external power is needed, only a mechanical engineer required
- Operational lifespan of 7-8 years\*, no maintenance or servicing
- Does not soften water, so water remains potable
- High quality engineering, so can be installed in recirculating systems
- No environmental impact, 100% recyclable materials
- Patented self-cleaning system, so units maintain efficiency for longer
- Always active, so no reliance on staff on the ground (topping up salt)

## The Technology and Engineering



## The Rinnai Nexus Solution

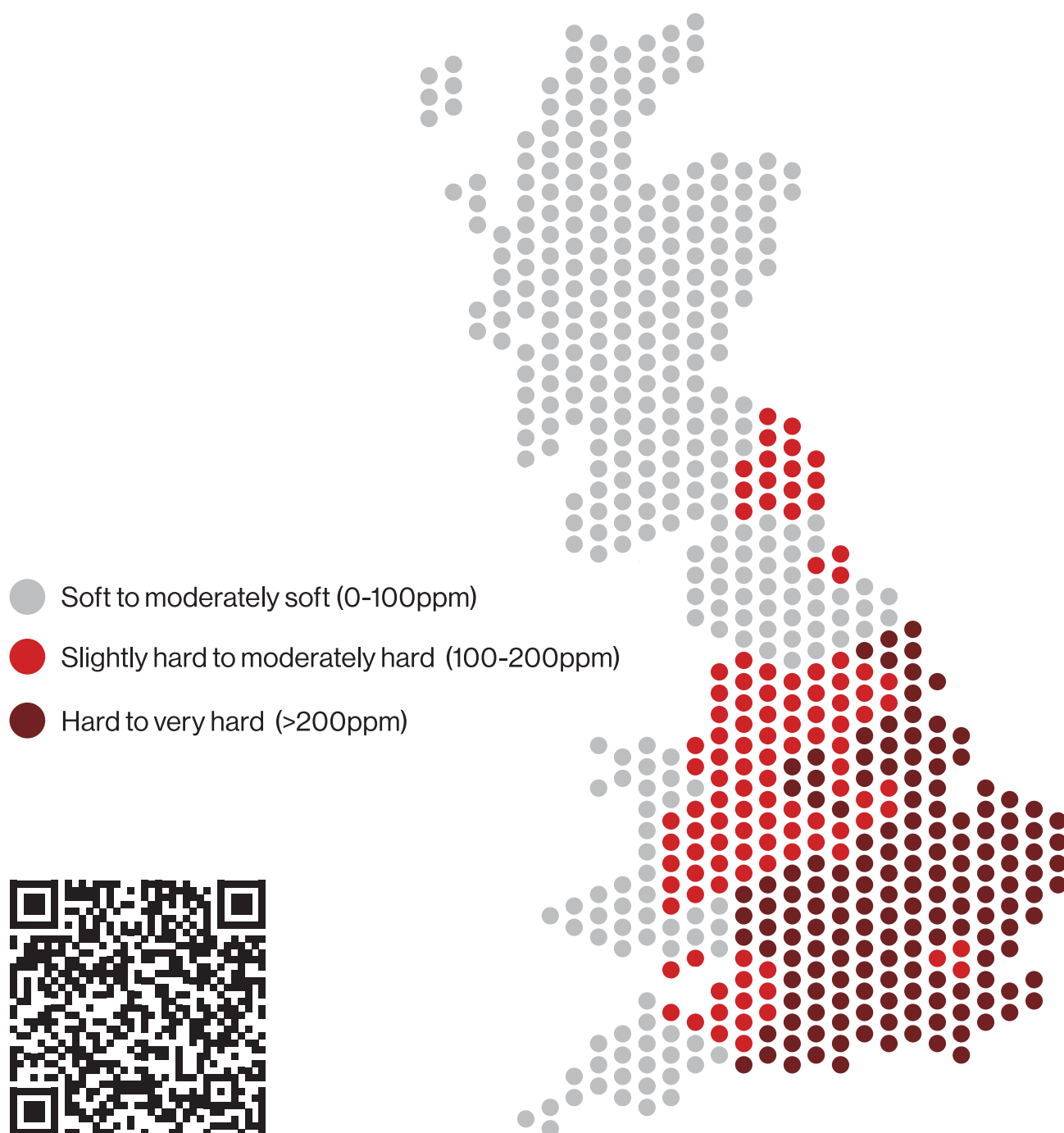
E-mail **[sales@rinnaiuk.com](mailto:sales@rinnaiuk.com)** to get your water heating and scale protection sized and specified and enjoy lifetime system efficiency.

As with all water heating systems and water conditioners systems can be oversized creating excessive cost and potentially lower performance - so **contact us today** and avoid poor water heating performance, increasing costs and wasted energy.



## Water hardness in your area

Around **60% of the UK** is classed as having hard or very hard water, with many areas exhibiting over 200mg of calcium carbonate per litre.



Visit [www.rinnaiuk.com/resources/water-hardness-postcode-search](http://www.rinnaiuk.com/resources/water-hardness-postcode-search) for easy access to information on water hardness in your area, or scan the QR code above.

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