

The Rodin Group

the water friendly company



Excalibur



ISB Technology



Excalibur – the physical water conditioner designed to inhibit and remove scale together with providing corrosion protection

Excalibur is based on the unique performance proven ISB technology and does not involve magnets or require electrical connections. **Excalibur** is self cleaning so continues to operate at the optimum performance level - it does not allow particles to adhere to its surfaces - this means constant results and no maintenance or running costs.

How Excalibur works

As water flows through **Excalibur** it passes across a large surface area of electrically inert material with dielectric properties. This generates electrical energy, by the action of friction between the water and the dielectric material, which can only be released by the water's action.

The released charge upsets the stability of particles in the water which are kept in suspension by their equal charges. By neutralising the charges and upsetting the balance of suspension, the particles are encouraged to coagulate and precipitate. **Excalibur** stimulates early unregulated precipitation and is designed to create irregular shaped, non-adherent particles. Additionally it creates water turbulence through the construction of its internal pathways which helps support the descaling process. Zinc is used so that cathodic protection is offered to the preceding and on-going pipework.

Excalibur is designed and manufactured in the UK and is WRAS approved.



Certificate available on request

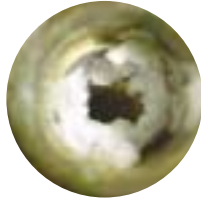


UK design & manufacture

Excalibur features and benefits

Excalibur is a physical water conditioner that creates an hydrodynamic process with electro-static and galvanic action

**reduces and inhibits
limescale**



Uniquely inhibits and removes limescale in hard water areas, but also reduces corrosion in both hard and soft water areas

No annual running costs - operates without the use of chemicals, magnets or electricity

Savings in energy and maintenance as the unit is self-cleaning and is 'fit and forget' once installed and earthed correctly

Maximises heating efficiency

**reduces and inhibits
corrosion**



Constant water treatment whenever water flows through the unit

WRAS approved

Compact, easy to install and retro-fit

Designed and manufactured in the UK at a factory with ISO 9001:2000 certification

Extends the operational life of metal pipework and equipment

Environmentally friendly

Specification, positioning and warranty

Model	Pipe Size (mm)	Connection Size (mm)	Length (mm)	Diameter (mm)	Nett Weight (grams)	Flow Rate (litres/sec)
E2822	22	28 to 22	150	28	175	0.58

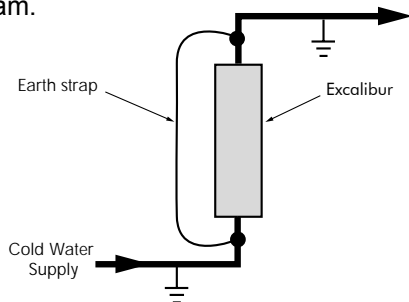
POSITIONING: Effective performance is dependent on positioning and flow rates. Excalibur is designed as an in-line scale inhibitor to protect pipework and heating surfaces

WARRANTY: there is a 5 year manufacturer's warranty against faulty manufacture and components

Excalibur installation instructions

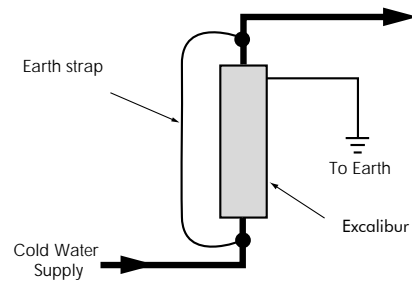
Schematic A

Where pipework is metal, properly grounded (earthed) and with no feedback from any stray currents from electrical equipment upstream.



Schematic B

Where pipework is not adequately grounded (earthed), potential electrical feedback exits or installation is into plastic pipework



WHEN PLASTIC PIPES ARE USED BE SURE TO BOND THE ACTUAL EXCALIBUR TO EARTH

Electrical earth bonding instructions

ELECTRICAL EARTH BONDING IS ESSENTIAL AND INSTRUMENTAL TO THE EXCALIBUR PERFORMANCE, IN ADDITION TO PROVIDING A SAFE CONTINUITY OF EARTH BONDING FOR OTHER PURPOSES

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