

IRON & MANGANESE REMOVAL



Iron & Manganese Removal

If your household water or well water is contaminated with iron and/or manganese, chances are you will know it. Rust coloured stains on your fixtures and clothing, bad tasting and/or smelling water, and maybe even sludge growing in your toilet tank can all be signs that you have a problem with iron and/or manganese in one form or another. Regulatory bodies who deal with water issues classify iron and manganese as "secondary" contaminants - those that do not pose a direct health risk, but instead create problems due to unpleasant odours, tastes, and colours, etc. CWS offer a range of filter systems to eliminate iron and manganese from water.

Crystal Rite

Automatic back-washing filter using crystal rite media which regenerates using tablet salt. Crystal rite provides superior removal of iron, manganese & hardness while raising pH levels of acidic water at the same time. Crystal rite crystals provide better filtration and are thoroughly cleaned by back-washing faster than ordinary resins without loss of product.

Crystal Rite is available in two types:

Crystal Right 100 is used where the raw water has a pH between 6.0 and 7.0. (If the pH is lower than 6.0 then conventional pH correction will also be needed.)

Crystal Right 200 is used where the raw water has a pH of 7.0 or above, it's advantage in this situation is a higher capacity.

Birm

Automatic back washing filter system using a Birm media. Birm is an efficient and economical method of removing dissolved iron and manganese compounds from raw water supplies. It acts as an insoluble catalyst to enhance the reaction between dissolved oxygen and the iron/manganese compounds. When using Birm for iron removal it is necessary that the water contains no oil or hydrogen sulphide, organic matter does not exceed 5 ppm, the dissolved oxygen content is at least 15% of the iron content and the pH is 7 or higher. For manganese removal the above also applies but the minimum pH is 8.0.



Unit 51, N7teen Retail Park, Tuam, Co Galway

Tel: 00 353 (0) 93 60705

Email: info@celticwatersolutions.ie

Fax: 00 353 (0) 93 27094

Web: www.celticwatersolutions.ie

Low/Call: 1890 252 388

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Providing Pure Water At An Affordable Price

CWS Iron & Manganese Systems are designed to provide your home or business with better quality water, removing the various undesirable elements that may be present in hard water, including iron, lime, sediment and rust. When installing a CWS Iron & Manganese System in your home we always recommend that you install one of our Premium Quality Drinking Water Systems, providing pure fresh water right at your kitchen tap. The main reason for this is they will remove all traces of sodium left from softening your hard water. These two systems in your home will not only improve your water, they will also improve your way of life!

The Benefits of Softened Water

Quicker clean up

When there isn't any Iron or Manganese in your water you won't have to spend time cleaning and scrubbing your kitchen sink, shower door and tiles. Softened water eliminates Iron or Manganese from your kettle and tea-stains from your cups.

Softer skin, silkier hair:

Softened water leaves skin and hair soft and healthy without the help of expensive beauty products. Softened water can help improve dry skin and eczema.

Modern appliances require modern water

Mineral impurities in tap water wears out appliances causing additional repair and replacement costs. Household appliances have a life expectancy of 40% less due to hard water.

Hot water costs

Scale build up on heating elements forms an insulation barrier which restricts heat flow. ¼ inch scale built up on heating elements can increase fuel consumption by up to 25%.

Savings on soap products and detergents

Hard water forces consumers to use many harsh detergent products. Softened water can save you 50% on your weekly detergent bill.

Detergent residues in clothing can irritate skin

Tap water leaves traces of detergents in your clothing causing skin irritation. Softened water eliminates the need for fabric softener. Eliminates red/brown stains on laundry.

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