

## **CRYSTAL D-25-SM**

FreshWater's CRYSTAL (D-25-SM) filter cartridge has been specially formulated to remove temporary hardness in water. It will reduce scum, scale, and other toxic heavy materials, but ensures that drinking water retains healthy minerals.

### **How does FreshWater's Crystal filter cartridge work?**

Water passes into the filter housing and then through the Crystal's de-alk filtration media. This removes temporary hardness and heavy metals such as lead, cadmium, and mercury. The permanent hardness – calcium – remains intact, ensuring your drinking water is balanced, pleasant to taste and retains its health benefits.

### **Do I need to remove scale and scum?**

No – removing scale and scum from your water is a decision based on the aesthetic appearance of your drinking water and in particular, hot drinks, where scale and scum can sometimes be seen on the surface of a hot drink.

It is caused by calcium carbonate precipitating out of the water at 70°C or higher, which is when a solid state occurs. On its own, scale – as you might see in a kettle – is formed. Mixed with milk, oil, flavourings, and tannins as found in tea, coffee and other hot drinks, a scum is created. However, think carefully before opting to tackle temporary hardness, as calcium is excellent for bone and teeth health.

### **Do I need to remove heavy metals?**

Heavy metals such as lead, cadmium and mercury – all of which can be removed by FreshWater's Crystal filter cartridge – have been proven to be toxic carcinogens linked to hypertension, strokes and heart disease.

### **How is the Crystal filter cartridge fitted?**

FreshWater's Crystal filter cartridge can be fitted as part of a FreshWater FW2000 system, which uses two filter cartridges.

### **How often does the Crystal filter cartridge need changing?**

Water hardness varies greatly from one geographical area to another, but as a guide, FreshWater's Crystal filter cartridge will remove temporary hardness from up to 600 litres of water in areas where hard water is 10°C Clarke. Consider, however, that the Crystal filter cartridge is formulated to remove temporary, not permanent hardness and



that the proportion of temporary and permanent hardness in water varies, whilst the total hardness remains the same.

**Can I keep a spare Crystal filter cartridge?**

Yes, you can – but please remember that like much filter media, the Crystal has a shelf life of 6 months. Please also remember that filter cartridges should always be stored sealed and in a cool environment.