

Domestic Water Softeners

Introduction to Hard Water

We call water "hard" if it contains a lot of calcium or magnesium dissolved in it. Hard water causes two problems, It can cause "scale" to form on the inside of pipes, water heaters, tea kettles and so on. The calcium and magnesium precipitate out of the water and stick to things. The scale doesn't conduct heat well and it also reduces the flow through pipes. Eventually, pipes can become completely clogged. It reacts with soap to form a sticky scum, and also reduces the soap's ability to lather. Since most of us like to wash with soap, hard water makes a bath or shower less productive.

Puricom Water Softeners



The solution to hard water is to use a water softener. The idea behind a water softener is simple. The calcium and magnesium ions in the water are replaced with sodium ions. Since sodium does not precipitate out in pipes or react badly with soap, both of the problems of hard water are eliminated. To do the ion replacement, the water in the house runs through a bed of small plastic beads or through a chemical matrix called zeolite. The beads or zeolite are covered with sodium ions. As the water flows past the sodium ions, they swap places with the calcium and magnesium ions. Eventually, the beads or zeolite contain nothing but calcium and magnesium and no sodium, and at this point they stop softening the water. It is then time to regenerate the beads or zeolite. The Puricom range of water softeners are available in the following options:

Model	Resin (litres)	Ports	Capacity @ 300 ppm	Size (cm) LxBxH	Flow Rate (l/m)	Salt Usage (Kg)
255-440	10	3/4"	1660	56 x 34 x 67	600	2
255-760	10	3/4"	1660	56 x 34 x 67	600	2
255-440	30	3/4"	5330	61 x 35 x 112	1800	6
255-760	30	3/4"	5330	61 x 35 x 112	1800	6

Eco Water Softeners



The Ecowater range of water softeners have a number of economic features such as an Electronic meter control and proportional brining system, achieving one of the lowest running cost machines of its class. It monitors your water consumption and only regenerates when required whilst ensuring you a 100% supply of softened water, yet consuming the minimum amount of salt and water used in the regeneration cleaning process. Due to its unique low height, the Atlasoft 9 litre unit can be installed below the majority of kitchen sinks. Also available in 24 Litre.