



pure water by reverse osmosis

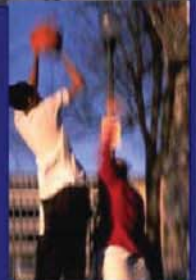


good health from A1 Filtration



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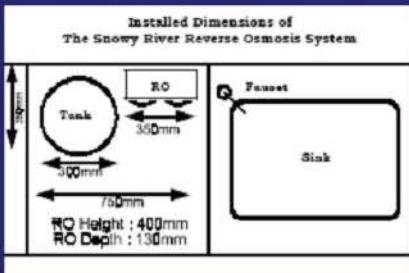


The Snowy River Undersink RO System



Osmosis is the process our lungs use to transfer oxygen to our blood and the same process that plants use to take up water and nutrients through their roots. It is the method by which a concentrated solution separated by a membrane draws up a less concentrated solution.

Reverse Osmosis is the opposite. A concentrated solution (e.g. high in Total Dissolved Salts) is forced under pressure through a semi-permeable membrane which extracts salts and produces pure water. **The Snowy River and Kosciuszko Reverse Osmosis** systems can filter down to one ten thousandth of a micron. They are proudly made in Australia and are available internationally.



The Wall Mount Kosciuszko RO System

Membrane Performance Examples

Contaminant	% Rejection	Contaminant	% Rejection
Aluminium	Up to 98%	Ammonium	Up to 97%
Arsenic	Up to 97%	Barium	Up to 96%
Bicarbonate	Up to 99%	Bromide	Up to 99%
Cadmium	Up to 97%	Calcium	Up to 97%
Chloride	Up to 99%	Chromium	Up to 96%
Copper	Up to 97%	Cyanide	Up to 97%
Fluoride	Up to 98%	Iron	Up to 99%
Lead	Up to 97%	Sodium	Up to 99%
Magnesium	Up to 99%	Mercury	Up to 96%
Nickel	Up to 97%	Nitrate	Up to 95%
Potassium	Up to 99%	Selenium	Up to 95%
Silica	Up to 95%	Silver	Up to 95%
Sulphate	Up to 99%	Zinc	Up to 97%

A1 Filtration manufactures two varieties of Reverse Osmosis systems. A plumb-in system (for under your kitchen sink) capable of producing approximately 100 litres per day of ultra-pure water, and a wall mount system (designed to be mounted above your laundry sink) that will make around 300 litres per day. Both systems come complete with a full installation kit. Our wall mount system is ideally connected to the washing machine cold water line, to make water for bottling, beer or wine making, iron and radiator use, aquariums, and small businesses such as window tinting, hydroponics, etc.



The chart below shows an RO's ability to remove pollutants down to 1 angstrom or 10,000th of a micron.

Micrometres	← Scanning Electron Microscope ← Optical Microscope ← Visible to Naked Eye						
	Ionic Range		Molecular Range		Micro Particle Range		Macro Particle Range
Angstrom Units	1	10	100	1000	10 ⁴	10 ⁵	10 ⁶
Approx. Molecular Wt	100	200	1000	10,000	20,000	100,000	500,000
Size of Some Common Contaminants	Aqueous Metal Ion	Salts Pyrogen	Sugars	Carbon Black	Paint Pigment	Yeast Cells	Human Hair
Removal Methods	Reverse Osmosis				Microfiltration		Particle Filtration



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