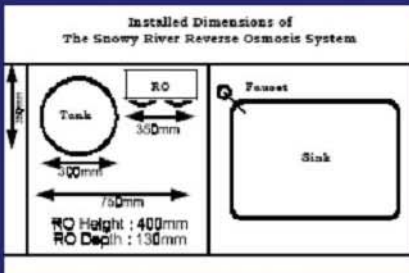


The Snowy River Undersink RO System



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 | 10 ⁷ | |
| 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 | Virus Tobacco Smoke | Bacteria Coal Dust Milled Flour | Yeast Cells | Human Hair Mist Beach Sand |
| Removal Methods | Reverse Osmosis | | | | Microfiltration | | Particle Filtration | | |



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