



*pure water by reverse osmosis*

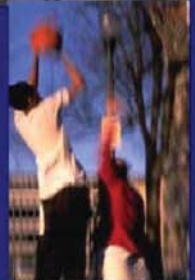


*good health from A1 Filtration*

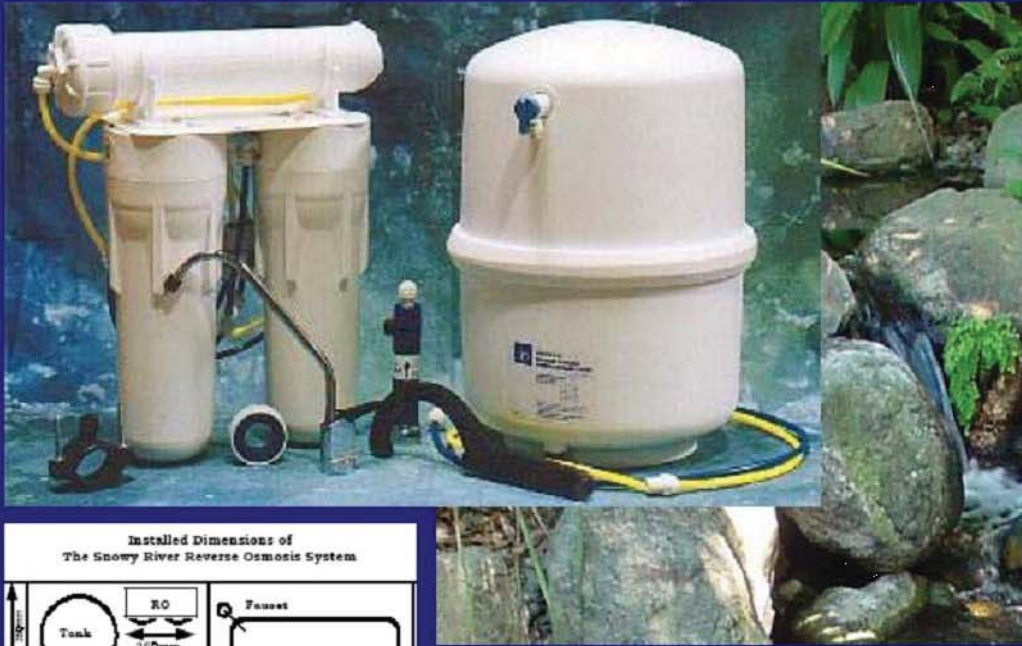


**CQ Water Services**

69 Lakes Creek Road  
Nth Rockhampton Q 4701  
Ph: 07 4922 974  
Fax: 07 4922 975  
[www.cqwater.com.au](http://www.cqwater.com.au)

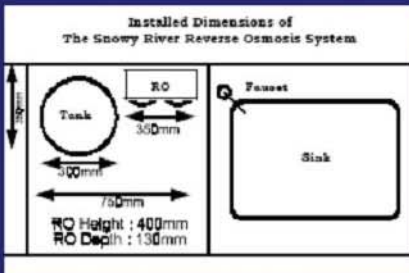


# The Snowy River Undersink RO System



**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 |        | Macro Molecular Range    | Micro Particle Range |                     | Macro Particle Range   |                 |                     |
|                                  |  | 0.001           | 0.01   | 0.1                      | 1.0                  | 10                  | 100                    | 1000            |                     |
| Angstrom Units                   | 1  | 10              | 100    | 1000                     | 10 <sup>4</sup>      | 10 <sup>5</sup>     | 10 <sup>6</sup>        | 10 <sup>7</sup> |                     |
| 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 | Yeast Cells            | Human Hair      | Beach Sand          |
|                                  | Atomic Radn  |                 |        | Colloidal Silica/Albumin | Particles Protein    | Bacteria            | Coal Dust Milled Flour | Pollens         |                     |
| Removal Methods                  | Reverse Osmosis  |                 |        |                          |                      |                     |                        | Microfiltration | Particle Filtration |



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www.cqwater.com.au

Greg Cross  
0400 28 77 44  
Managing Director  
greg@cqwater.com.au

Mark Fickling  
0422 28 77 44  
Sales

marc@cqwater.com.au