

# AQUARIUS

5 stage  
Reverse Osmosis Water  
Purifier

Advanced membrane  
technology to effectively  
remove chlorine, pesticides,  
heavy metals, organics and  
Nitrate.



# AQUARIUS RO UNIT

- For people living in rural areas, who are worried about the increasing Nitrate levels in the ground water available to them.
- The Aquarius Reverse Osmosis Unit provides an economical solution to reducing Nitrates, along with other agricultural chemicals.
- Dimensions W 38.5cm, H 44cm, D15.0 cm
- Modern matte finish faucet

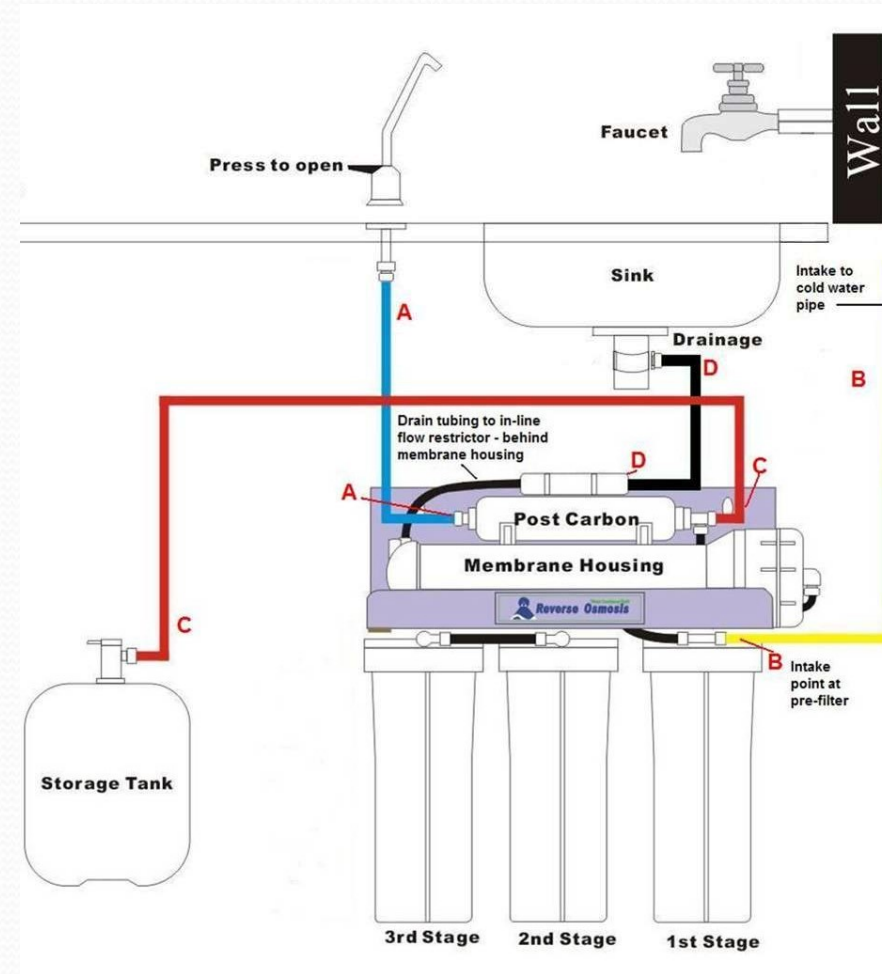


# Nitrate Reduction

- RO is internationally recognised as the most effective “point of use system” to safely reduce Nitrate in ground water.
- Nitrate affects the transfer of oxygen in the haemoglobin and is most dangerous for pregnant women and bottle-fed babies.
- Increasingly present in ground water subjected to effluent spreading, often from piggeries, dairying operations, and intensive farming in the catchment area.
- Adults may experience adverse reactions to high Nitrate levels including intestinal problems. There is also information in research papers it may be linked with up to **15** different types of cancer.
- The Danish 2018 study of 1.7million adults over 33 years noted significant increase in bowel cancer rates when the level of Nitrate in drinking water was 3.87mg/L - well below the current NZ Maximum Acceptable Value of 11.3g/m<sup>3</sup>

# Typical Installation

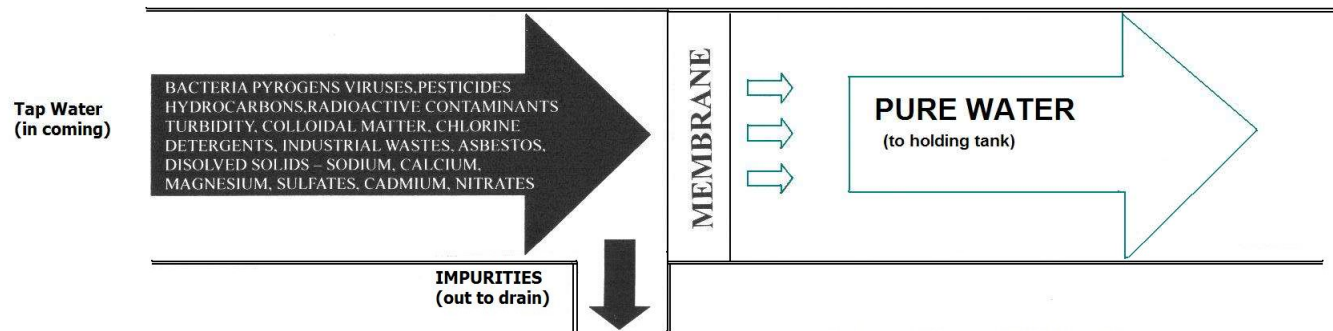
- The Aquarius Reverse Osmosis Unit has 5 passes so is designed for situations where extra preliminary filtering is an advantage.



# Filter Sequence

- If a water supply is clean but heavily chlorinated or vulnerable to chemical leaching, an extra different grade of carbon cartridge is used.  
The sequence would be;
- A 5-micron sediment filter followed by the two different grades of carbon filters then the Reverse Osmosis membrane. This line-up of filters is best for the longest and most effective chemical removal in the purified water.
- Where the in-coming water may be discoloured and dirty, the sequence could be;
- A 20 micron pleated washable sediment filter in the first housing, followed by a 5 micron polypropylene dense sediment filter, then a carbon filter followed by the Reverse Osmosis membrane.
- NSF certified 50GPD membrane
- The last carbon filter in the line is located between the reservoir tank and the drinking tap supplied with the unit.

# How Your Unit Works



## ADVANTAGES:

- \* Improves taste, odour and appearance
- \* Highly effective purification process. Will remove the pollutants listed above and more!
- \* Consumes no energy
- \* Very convenient
- \* Flushes away pollutants, does not collect them
- \* Easy to keep clean
- \* Low production cost, gives you water of a guaranteed quality for less than a cent per litre.

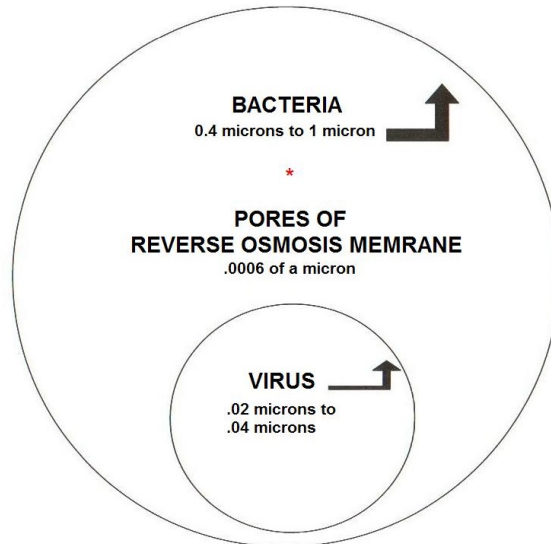
## OPERATING PARAMETERS:

- \* Must have water pressure of at least 40 p.s.i.
- \* Cannot use hot water
- \* Must not be frozen

# Particle Sizes

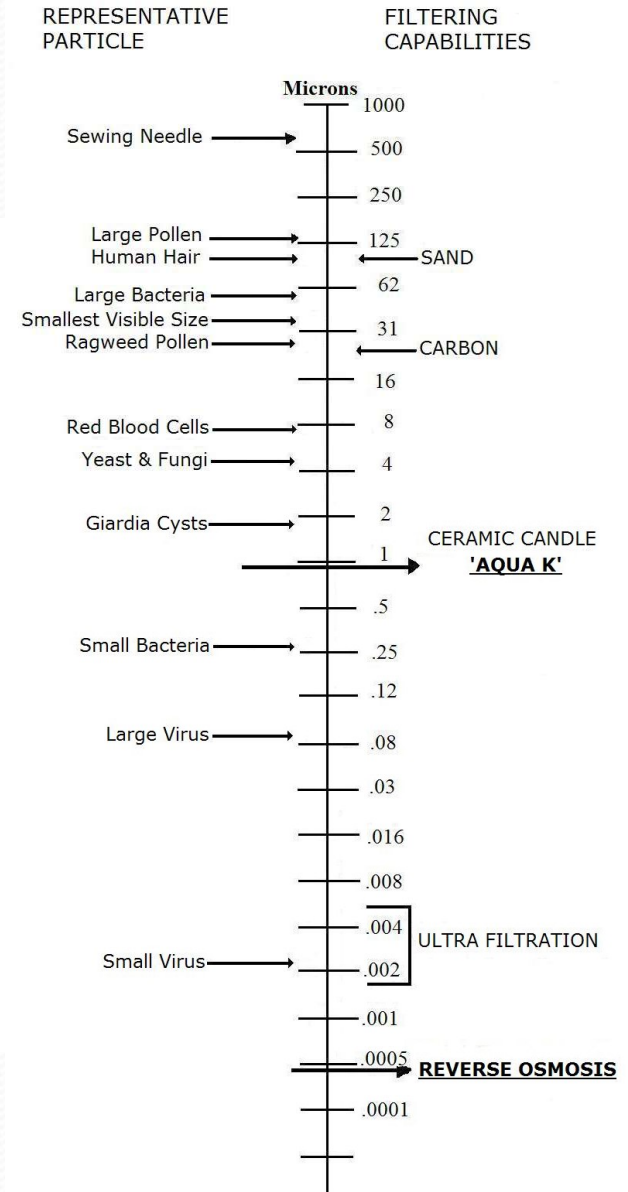
## COMPARATIVE SIZES OF MATERIALS REJECTED BY A REVERSE OSMOSIS MEMBRANE

Smallest visible size is 40 times greater than the 'Bacteria' circle on the same scale.

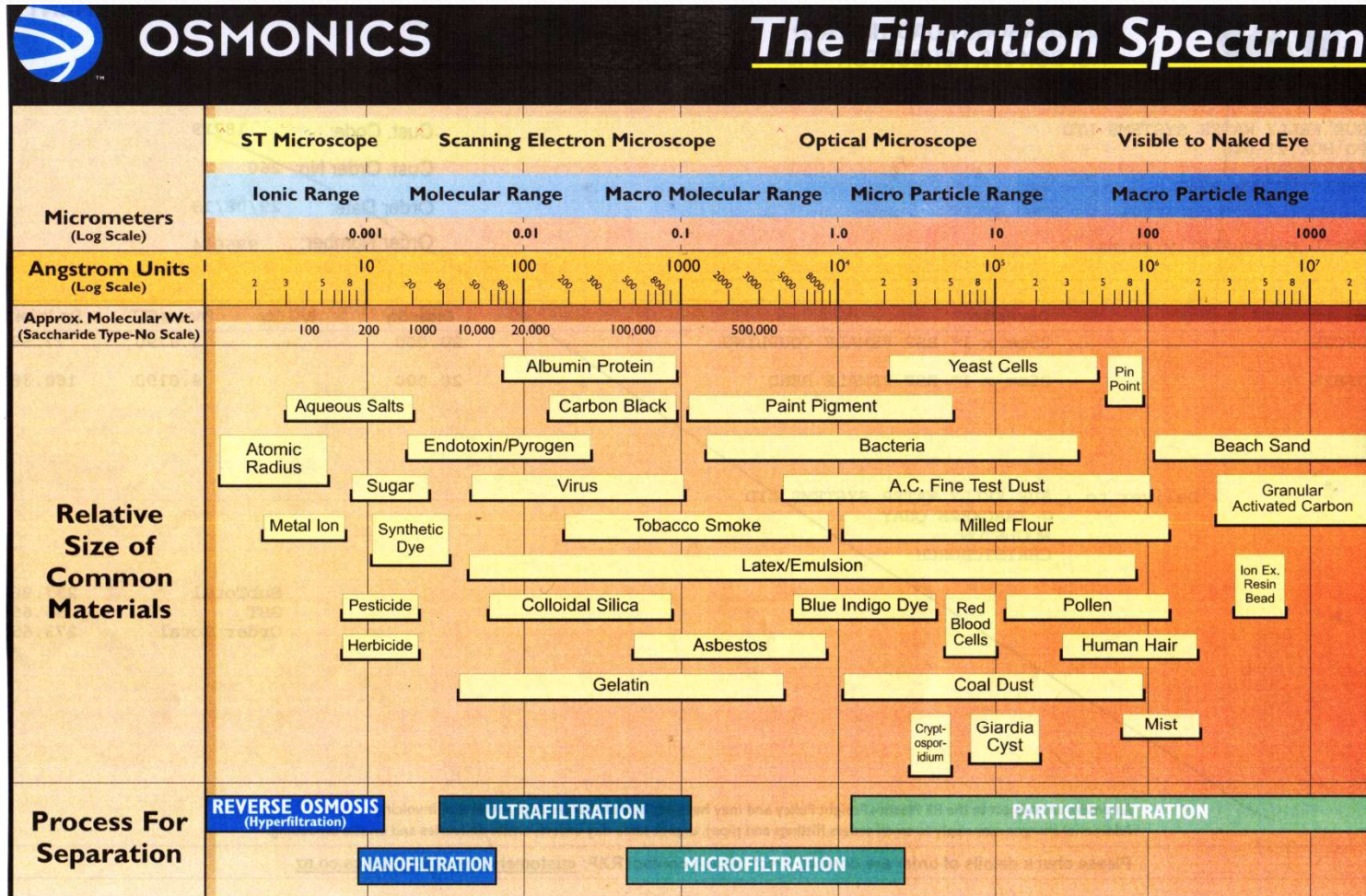


### PARTICLE SIZES

1 MICRON = 1 Millionth of a Metre



# Comparative Sizes





# Maintenance Requirements

Maintenance requirements for this Reverse Osmosis unit are as follows:

- 1 x sediment filter – this only needs to be changed when discoloured. 6 to 12 months
  - 2 x carbon filters (for taste/smell) - typically changed 6 monthly
  - 1 x Inline carbon filter – usually changed annually
  - 1 x Reverse Osmosis Membrane – usually changed 2 – 3 yearly.
- 
- Sue Kelly Water Systems Ltd provide a computer-generated maintenance service for all clients.
  - Replacement filters are couriered to you at the manufacturers recommended intervals or as directed by you.
  - All of the above maintenance requirements are available from our warehouse.

The logo for Sue Kelly Water Systems Ltd features the name 'Sue Kelly' in a large, black, cursive script font. Below it, 'Water Systems Ltd' is written in a smaller, black, sans-serif font. The text is centered within a white rectangular box that has a subtle drop shadow. The background of the slide is white with a decorative blue and teal wavy border at the top.

# Sue Kelly

Water Systems Ltd

- For any further enquiries or information please contact:
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- e mail: [sue@suekelly.co.nz](mailto:sue@suekelly.co.nz)

#### Client Comments:

'Just a short note to say that we are very pleased with our water conditioners and house filters, our water is just so good to drink now, I always thought it was good but now I hate to think what we might have been drinking, anyway now it is just perfect.' **KS Blenheim**

'We are very happy with the filter – the water tastes great. Thank you very much.' **SB Blenheim**

'Superb Service!' **AB Auckland**