



SALTFREE DESALINATION

Proprietors Brian and Carolyn Schulz

0410 579 651

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SALTFREE DESALINATION

❖ POINTS COVERED

- ❖ Types of Desalination Units
- ❖ Water Types
- ❖ Water Testing
- ❖ Need for treatment
- ❖ Volume of fresh water required
- ❖ Waste discharge
- ❖ Chemicals
- ❖ Warranty
- ❖ Costing



SALTFREE DESALINATION

- ❖ We presently manufacture 5 styles of Desalination Units.
 - ❖ Two types of Manual units, one style in a framework capable of containing from 3 to 10 membranes.
 - ❖ The second, a more commercial sized unit, set out in a circular fashion, capable of handling up to 16 membranes.
- ❖ Automatic systems in three different sizes.
 - ❖ Computer driven, programmable to suit specific working hours.
 - ❖ Self cleaning.
 - ❖ Safety margins incase of interrupted water supply .
 - ❖ A commercial unit built to produce upwards of 500,000 litres per day. Dependant on the water being treated.



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❖ Water Types.

- ❖ Generally you will find that Reverse Osmosis Filtration, is effectively the most thorough form of filtration.
- ❖ Suitable for removing pretty much all forms of minerals. ie ;
 - ❖ Manganese
 - ❖ Calcium
 - ❖ Silica
 - ❖ Iron etc....



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- ❖ Water Testing
- ❖ For a thorough and fairly accurate assessment of your individual situation, we prefer to work with up to date water results (at least 12 months old)
- ❖ We recommend S.W.E.P Analytical Laboratories.
- ❖ An accurate water test enables us to determine the size of the unit you will require, along with any pre- treatment filtration.



SALTFREE DESALINATION

- ❖ Why the Need for Pre-Treatment of the Water
 - ❖ To remove harmful contaminants,
 - ❖ To increase the service life of the membranes,
 - ❖ Reduced running costs,
 - ❖ provides a greater return for your investment.



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- ❖ Feed Water and Fresh Water requirements
 - ❖ A sustainable and constant flow of feed water to the Desalination Plant is required, under a steady pressure.
 - ❖ Both your manual and automatic units, have a safety shut off system in place, in the event of a drop in feed pressure, to protect your units large multistage motor.
 - ❖ We generally require a return supply of fresh water which you have produced, for systematic back flush.



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❖ Waste Discharge

- ❖ Depending on local regulations, sometimes sewer.
- ❖ Generally though, your waste is normally discharged into a clay or plastic lined dam/pond for a combined wind and sun evaporation with your outside elements.
- ❖ With some local councils, they actually remove your waste by tanker for preventative dust treatment of their local roads, and generally pay you for it.



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❖ Chemicals

- ❖ With Reverse Osmosis Filtration, with which ever company you may choose, it will always be required that you use your system with some form of anti-scale.
- ❖ The anti-scale which we supply, is bio-degradable and simply passes through your unit via your waste outlet.
- ❖ None of the chemical leaves your system via your fresh water.
- ❖ The anti-scale helps prevent any scale build up on your membranes.



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- ❖ 12 Months Warranty from the Date of Install on site. Covering any labour or parts.



SALTFREE DESALINATION

- ❖ Costing and Delivery
- ❖ As every customers individual requirements vary so much, we generally build our units specifically for each individual case.
- ❖ Which is why we firstly need to know what your individual water quality is like that we would be treating, along with the daily requirements of treated water you will need.
- ❖ Units are generally built and installed within six weeks of receiving the deposit. Payment in full is required upon commissioning.



SALTFREE DESALINATION

- ❖ Australian content is always sourced and used where possible.
- ❖ Our units are built by our family run company in regional Victoria, primarily using local companies for supply.
- ❖ We take pride in our reputation for our support, which we diligently provide 24/7 .
- ❖ For any further enquiries, please call 0410 479 651