



Information Data Sheet

We custom build our units for customers specific needs, so generally for us to marry the right product to what our customer needs, we really need three pieces of information initially, so that we are able to provide them with a tentative quote. The quote is always subject normally to the customer carrying out a fresh and detailed water test, but generally before we ask them to carry out the test, we supply them with an idea of the price they would be looking at for a unit, so they have a clear idea as to what budget they are looking at. This way I'm not wasting their time or money obtaining a further test, if it's out of their ball park anyway.

Having explained this, for us to provide a quote we initially need to know;

- Where their property is located,
- Some idea of the salinity of the water they wish to treat
- And a rough idea as to how much fresh water they will require each day. Normally with a domestic unit for the home for the gardens and showers, toilets etc... a small unit producing roughly 15,000 litres a day covers it. But if they are supplying stock, or a market garden, vineyard, car wash or dairy farm for washing down the stalls etc... then generally they will need a bigger unit.

Generally also, there is a rule of thumb by which if their salinity level is under **3,500 ppm**, then one of our small 3 membrane units will deliver for them **12,000 – 15,000 litres per 24 hour day**. Now any of our units will come in two formats, manual or fully automatic.

We initially ask for a 50% deposit with which we then start to order the larger ticket items required to build the unit, and the remainder is paid on completion, delivery and set up on their property. We do have interest free staggered payment plans for the last 50% balance, and we also offer discount should they pay the balance in one go on completion.

The cabinet that the desalination unit is fitted out in, is vermin proof and manufactured in full 304 stainless steel sheeting that has been powder coated, and will hold anywhere from 3 membranes to 12 membranes, the same goes for either the manual or the automatic unit. So should your unit be treating water with 3,000 ppm salinity and it contains 3 membranes, then it would

produce 15,000 litres per day of potable water, however the same unit fitted out with 12 membranes treating the same water would produce 62,000 litres per day.

As for the differences between the manual unit and the automatic unit,

- water passing through either unit will produce the same amount of water, and the water quality for either will also be the same, no different.
- We sell about the same quantity of either style, 50/50.
- We prefer the feed line of the supply water to be pressurised so that once the flow has been shut off by either a ball valve or a motorized valve, then the feed supply is shut off by a pressure switch.
- The manual unit is initially fired up by the turn of a ball valve, and instantly starts producing water.
- The automatic unit has all the bells and whistles as they say, and with this case, it's the computer that keeping an eye on their supply tank that starts production.
- Both styles of units are plumbed up so that the primary paper filters that are supplied with the unit, are back washed at the same time that the membranes are receiving a forward flush.
- The automatic unit comes standard with a Variable Speed Drive Computer as well providing a soft slow start ability as well as an inverter to convert the single phase supply to a three phase power supply, allowing the unit to draw approximately 15% less power to operate the unit, producing the same productivity as the manual unit.
- Either unit will require an anti-scale additive to be administered into the feed water supply while the unit is operating, this additive will deter the membranes within, from calcifying up while salty water is present in the membranes.
- With the manual unit, we ask you to mix up a blend of water and anti-scale weekly, for the dosing pump attached, to draw from.
- With the automatic unit, the dosing pump supplied is of a higher quality, allowing the dosing pump to draw direct from the chemical container, omitting any manual maintenance.