



**Stage 1** is the Omnipure CL10PF5, 5 micron sediment filter. This filter can be simply replaced annually or when it becomes blocked with sediment, however, if you are handy and wish to extend it's useful life you can dis-connect the filter and reverse the tubing and back flush the filter, after doing this you can soak the filter in a 5% bleach solution for 1 hour being sure the solution has entered the cartridge, this will sterilise the cartridge and can now be re-connected as before for re-use. Flush before re-use.

**Stage 2** is the Omnipure CL10RO-T40, 5 micron granular activated carbon cartridge that has been acid washed for increased purity. This cartridge will adsorb the chlorine that can damage the membrane. This cartridge will last for about 5,500 litres in total, which includes the waste water, so it will last about 1,500 litres of product water. Read stage 4 to obtain maximum life from the cartridges to minimise replacement costs.

**Stage 3** is the Dow Filmtec TFC (thin film composite) membrane, which is the heart of the unit. We use the 400 litres per day membrane, which is the largest, and fastest that can fit into a standard size membrane housing. Membrane are rated at how much water they will produce if left on for 24 hours at 50 psi pressure and will produce more if there is higher pressure. This membrane will produce Reverse Osmosis water at about 275ml to 500ml per minute and this unit is the market leader for speed and quality, many people purchase Reverse Osmosis units and expect them to produce water as fast as a filter system and they don't but the quality of the water is second to none.

**Stage 4** is the Omnipure CL10RO-T40, 5 micron granular activated coconut husk carbon cartridge for the best tasting water possible. We use the coconut carbon cartridge for it's superior taste as coconut carbon doesn't release phosphates and change the pH like coal (normal carbon) based carbon does.

You can simply replace the three cartridges as required with new ones but if you or someone you know is handy you can take this cartridge and put it where the second stage cartridge was. The fourth stage cartridge does very little work after the membrane and is no where near exhausted so to maximise cartridge life and to minimise expenses take the fourth stage cartridge and put it as the second stage and place the new cartridge at the fourth stage.

The old second stage cartridge is to be discarded as it is exhausted and must not be placed at the fourth stage as it can realise some of the chemicals that it has adsorbed.