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safe water recycling

Odourless and Safe Recycled Water

Good for your family and your garden

The NovaClear AWTS takes all Household Black & Grey Water, combines nature's own digestion process with membrane filtration to recycle wastewater to safe and re-usable clean water.

Our membrane pores are so fine; they block out all bacteria and are in fact 300 times finer than a human hair ensuring bacteria, viruses and sludge don't find their way into your family's garden.

The NovaClear Water Recycling System wasn't just invented, it was developed from years of experience in household water recycling. NovaClear is making a positive contribution to the problems caused by drought and global warming.

NovaClear was proudly developed in Australia by WaterGurus with the support of 3 leading Universities, manufactured and sold across Australia and overseas.



novaclearTM
WATER RECYCLING

**Make the Safe Choice
for your family**

Conventional single house sewerage treatment plants have historically been built to budget and used basic treatment concepts.

Fifteen years from when the first 'treatment systems' were introduced the NovaClear Team thought it was time for a quantum leap in the technology and processes used. The NovaClear System has taken the industry from simply treating the wastewater to leading the way in domestic water recycling, truly re-usable and safe water.

Testing of our water quality has consistently shown our membrane disinfection process is more reliable than the chlorine method used in most other systems...making it safer and better for the environment and your living spaces.

By providing trend setting water recycling technology and safe re-usable water, NovaClear has been making a positive contribution to Australia's water crisis for nearly 4 years with 1,000 systems installed in Australia.



NovaClear is proudly supported by a national network of certified distributors and trained service agents.

For more information

1300 668 225

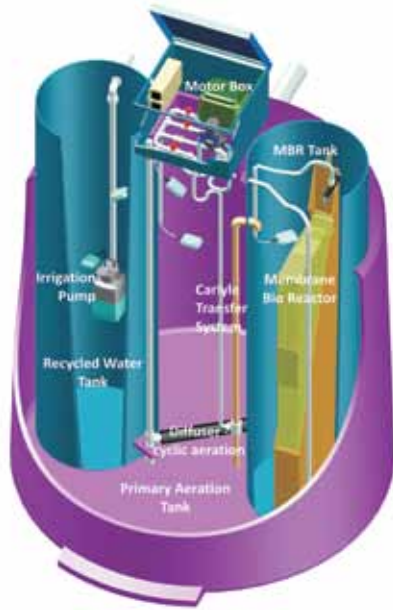
www.watergurus.com.au

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WaterGurus
Waterwise Solutions

recycle | reuse | create | conserve

How the NovaClear Recycles Wastewater



First Steps

The single lightweight polyethylene tank is UV stabilised, chemical resistant and allows for easy installation above or below ground.

The system incorporates a huge buffering reserve on top of the 2000L daily capacity, of over 1,400L of storage for times of high load and emergencies.

The main tank or primary chamber starts the fully aerobic process, no anaerobic or septic compartments or smells to deal with. One of the unique features of the NovaClear Recycling System is its ability to digest the organic matter and excess biomass, resulting in almost no sludge build up and significantly reducing the need to ever pump it out. The system processes through air on and air off cycles to produce anoxic conditions to reduce the nutrients in the waste water which is great for our water ways and the environment. After primary treatment in the main tank the biomass is transferred to the completely sealed and isolated membrane chamber.

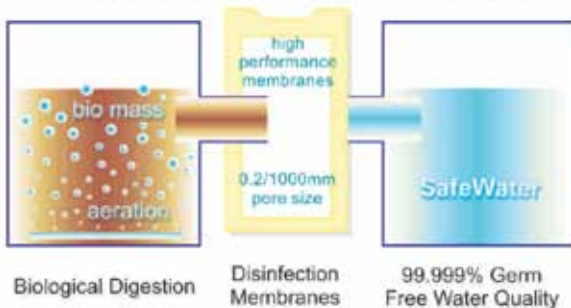
Membrane Filtration

The seven flat sheet submerged membranes are housed in a PVC cassette. Course bubble aeration below the membranes produces a scouring and self cleaning function. Aeration also continues the biological process of sludge digestion started in the Primary Chamber.

A small low voltage suction pump draws the water through the membranes and is delivered to the final recycled water chamber. All bacteria and solids remain behind.

With a membrane pore size of 0.2 micron, the recycled water drawn through the membranes is extremely clear and free of pathogens (99.99% germ free water quality). The pore size of the membranes are small enough to physically block out bacteria (E-coli) and even viruses.

MembraneSafe™ Technology in a NovaClear



Recycled Water

The final chamber in the NovaClear System is completely sealed with no possible cross contamination. The clear and safe water is then pumped out via a submersible pump to the irrigation area, in many regions via surface sprinklers.

Water Quality and Accreditation

NovaClear is approved in all states. The system recently underwent testing for New Zealand certification and as with previous testing was rated at A+ in all the key water quality benchmarks, achieving water quality through to a tertiary standard.

Distribution Network

NovaClear is supported by a team of trained and certified distributors in all States within Australia and New Zealand.

In addition our state managers can help you with the entire process from site specific advice through to commissioning and getting the best from your NovaClear Recycling System.

For more information

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