



# REVERSE OSMOSIS SYSTEMS



# REVERSE OSMOSIS SYSTEMS USE MODERN TECHNOLOGY TO **TREAT** **WATER** FOR POTABLE DRINKING AND PROCESS WATER.



RWTS's reverse osmosis systems have been engineered to produce consistent high quality water for human consumption.

## THE REVERSE OSMOSIS **SOLUTION**

Freshwater supplies are limited – there's no doubt about it. RWTS's reverse osmosis systems provide a reliable supply of safe drinking water to sustain regional and accommodation communities around Australia and the Pacific.

As a **climate independent** water solution, our reverse osmosis systems provide **year-round access** to this vital resource, even through extended periods of **minimal rainfall** and **drought**.

This not only ensures these communities can thrive, no matter the forecast, but relieves demand on limited fresh water supplies to protect natural ecosystems. Reverse Osmosis is a trusted technology that currently provides around 95.37 million m<sup>3</sup> of potable water to the world per day. In a world where only 3% of our water is fresh water and its scarcity is growing, our RO systems offer security.



Ideal for remote communities and work force accommodation facilities



Provides reliable water supply, independent of rainfall



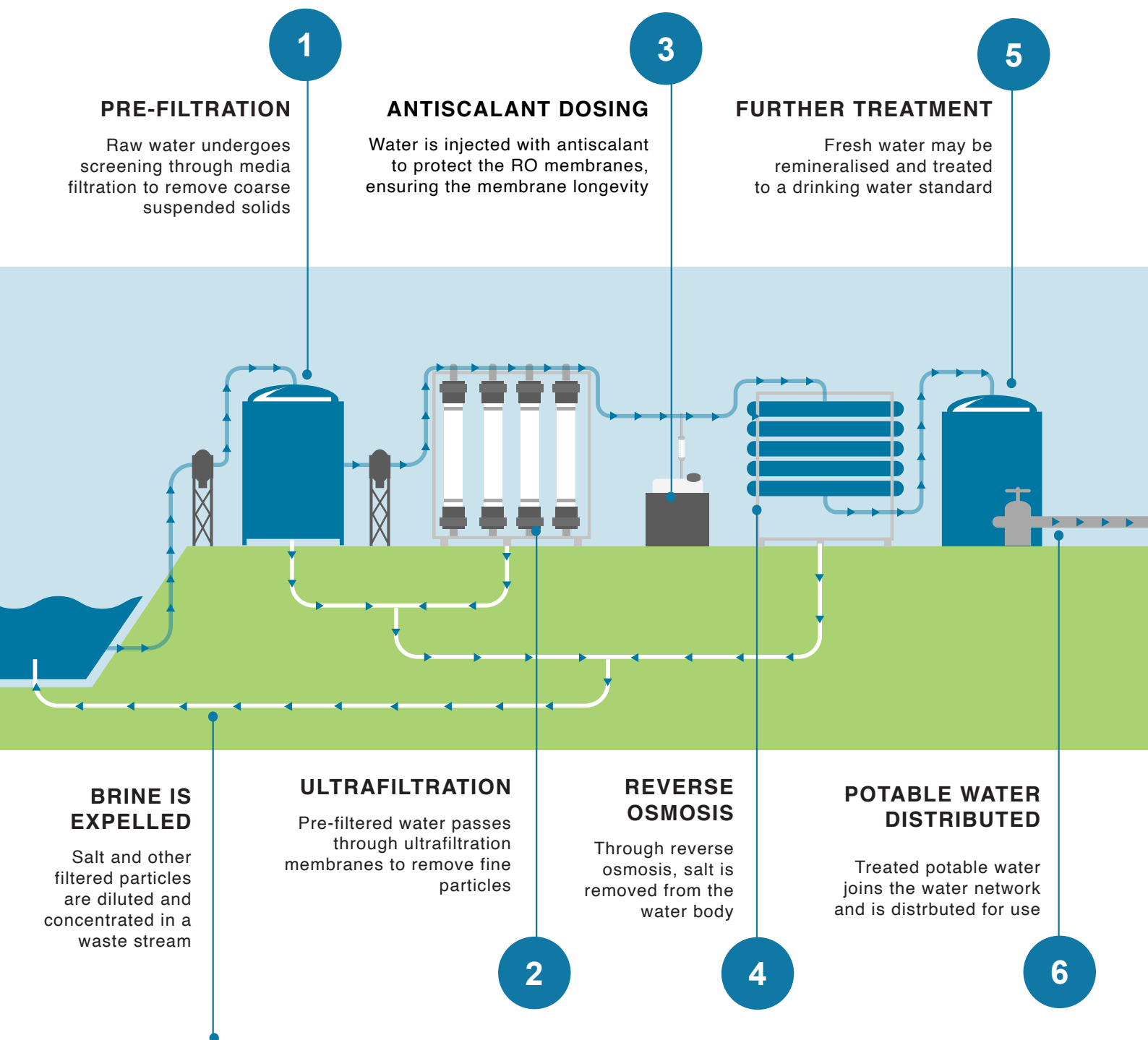
Produces high quality potable and process water



Tried, tested and trusted water treatment technology

# TREATMENT PROCESS

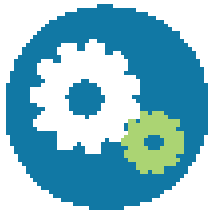
Although the specifics will vary depending on the project, the below diagram outlines a standard configuration of a traditional reverse osmosis process with pre-filtration. As with most water treatment systems, reverse osmosis will ensure the raw water undergoes pre-treatment. This involves prefiltration, ultrafiltration, and antiscalant dosing. These initial processes are crucial in optimising the performance of the BWRO and ensuring the longevity of the plant. Pre-treated water will then undergo reverse osmosis, whereby the salt is separated from the pure water. Having stripped water back to basic H<sub>2</sub>O, further treatment will often be required to ensure water meets Australian Drinking Water Guidelines. This process will likely involve the remineralisation of permeate water for Langelier Saturation Index (LSI) correction. Water then joins the water network and is distributed for a range of applications.



# THE RWTS ADVANTAGE

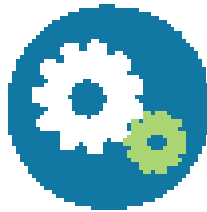
As the streamlined water specialists, we are committed to developing reverse osmosis systems that can be seamlessly transported and commissioned. RWTS offers a range of tailored RO systems, complete with any necessary pre-filtration requirements. Working with our in-house team of experienced engineers, we can design, construct and install the ideal solution for your project.

Our RO systems integrate smart technology and features that will assist in the conservation of energy, reduce the amount of water required for operation and even provide water recycling opportunities.



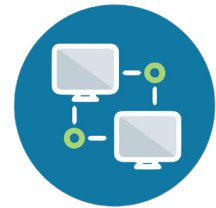
## AUSTRALIAN-MADE

and designed by our experienced engineers to meet the highest standards in quality and safety



## COMPLETE AUTOMATION

for reliability with minimal operator intervention



## REMOTE TELEMETRY

for 24/7 monitoring and expert support



## CUSTOMISATION

to meet client objectives, ensuring optimal performance and efficiency



## MODULAR

to enable your system expansion



## CONTAINERISED DESIGN

to enable seamless deployment and speed of connection

## THREE KEY AREAS OF TECHNOLOGY

- **Nanofiltration** - for water softening and colour removal
- **Brackish Water Reverse Osmosis Systems** – for surface water and bore water treatment applications with a total dissolved solids/salts level below 10,000 mg/L
- **Sea Water Desalination Systems** – for feed water with a high salt concentration and sea water





# OUR PARTNERS



**5**  
YEAR

WARRANTY

We build our systems to last, even in the harshest remote locations. That's why RWTS offers a 5-year structural warranty on all Reverse Osmosis Systems. Choose guaranteed durability to gain the long-term benefits of your investment.

## HIRE

For a flexible and immediate solution, our reverse osmosis systems are available for hire. Ensure consistent, reliable operation and optimal performance without the significant upfront investment.

Our team will tailor an approach to meet the requirements of the project scope.



REMOTE WATER TREATMENT SERVICES

186 New Cleveland Road,  
Tingalpa, Queensland, 4173

1300 787 719  
sales@remotewts.com.au  
www.remotewts.com.au

GET IN TOUCH AND  
**GUARANTEE YOUR**  
**WATER SECURITY**  
TODAY.