



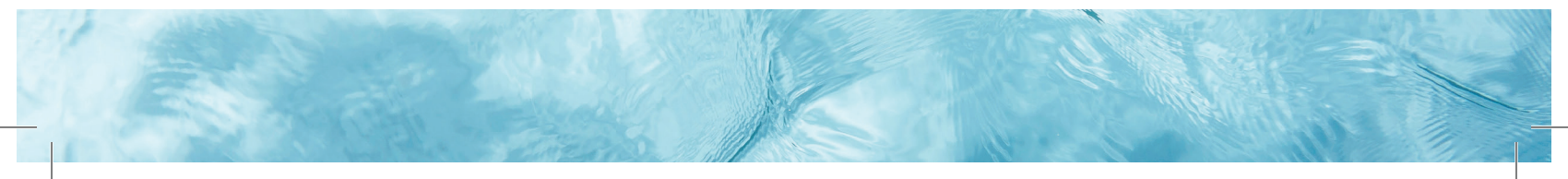
BRINE SOFTENING

SATURATED BRINE WITH Ca/Mg REMOVAL

**LEADING PROVIDER OF
INDUSTRIAL FILTRATION SOLUTIONS**



Cleaner, greener solutions - harnessing physics and chemistry -
tailored to meet your water treatment needs



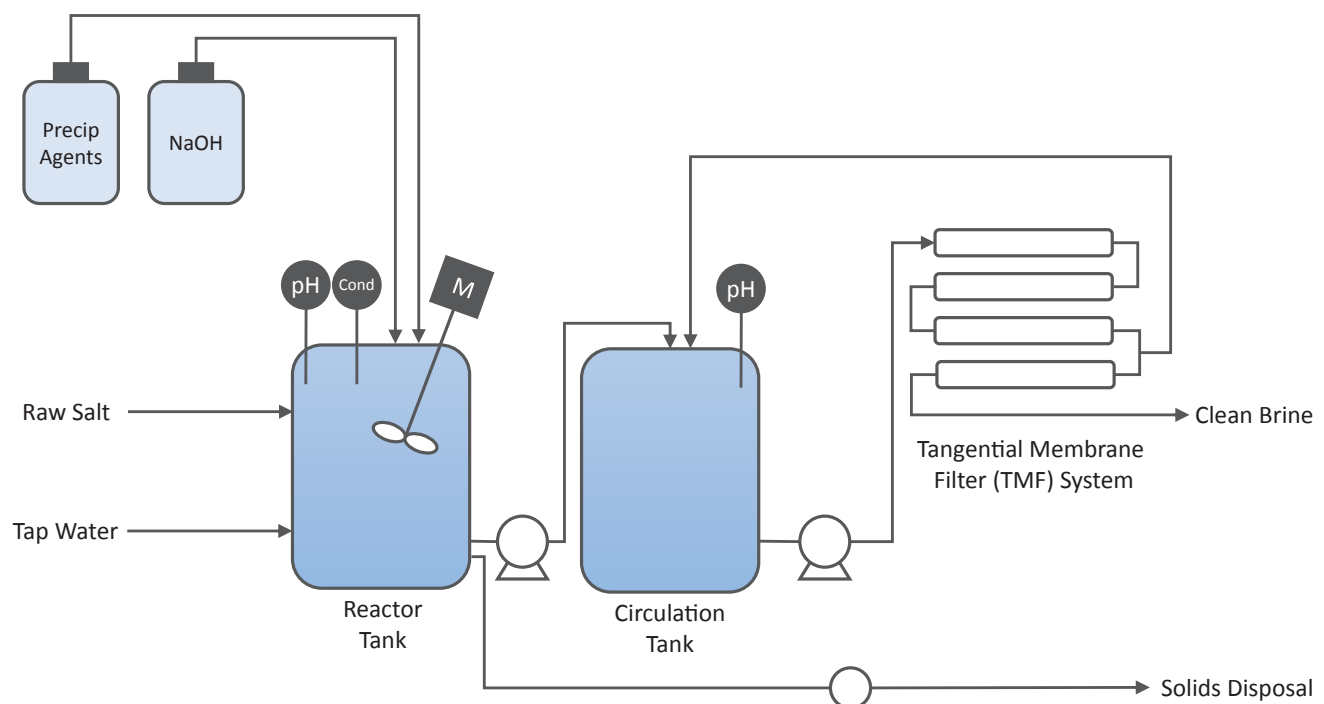
OUR SOLUTIONS

- ICMQ provides industrial filtration and water treatment solutions, meeting the needs of a wide range of industries.
- We provide solutions by evaluating your water quality and treatment challenges and then develop systems to address specific contaminants.
- ICMQ analyses wastewater composition using advanced analytical techniques that identify specific contaminants and their concentration.
- We then test treatment technologies to determine which filtration and water treatment methods are most effective for the target pollutants.
- Our customised industrial filtration and water treatment solutions are designed to fulfil immediate requirements while delivering ongoing benefits such as improved water quality, compliance with regulations, and increased operational efficiencies.



TMF-1000 – SATURATED BRINE PURIFIER

The TMF-1000 removes calcium and magnesium hardness from locally sourced industrial salt – streamlining the purification of saturated brine – lowering costs, lead times and carbon footprint.



YOUR PURIFIED SALT SOLUTION

Problem: Salt is used in a wide range of chemical processes including the chlor alkali process, soda ash production, water softening, metallurgical processing, soap and detergent manufacturing and oil & gas drilling.

Local salt often contains high levels of hardness minerals, primarily calcium and magnesium, which can interfere with these processes. For electrochemical processes in particular, local salt with high hardness can introduce calcium and magnesium ions, leading to electrode scaling, reduced conductivity, and inefficiencies in reactions.

This forces many companies to source the required high-quality salt from overseas suppliers resulting in increased costs, increased risks of supply chain disruptions, currency fluctuations, quality/consistency issues, dependency on foreign markets, and an increased carbon footprint.

Solution: TMF-1000 addresses the high cost and associated supply chain risks of sourcing purified salt.

WHY CHOOSE TMF-1000?

KEY BENEFITS

- Use of local salt suppliers
- Supply chain risk management
- Ensures quality saturated brine
- Processing capacity of 7 tonnes of salt or 24,000 litres of brine per day
- Significant return on investment
- Reduction of carbon footprint
- Support of local producers and communities

KEY FEATURES

- Robust cross flow filtration
- Variable throughout
- Easy access for maintenance
- Clean in-place system included

TECHNICAL SPECIFICATIONS:

- 50 nanometre filter
- Variable speed mixer
- pH, conductivity and specific gravity monitoring included as standard
- Radar level sensor controlled
- HMI prompted batch control



TMF-1000

ABOUT ICMQ FILTRATION

- Established in 2007, ICMQ has evolved into a multidisciplinary water treatment entity, offering an extensive array of water solutions using the latest cutting-edge technology.
- In addition, ICMQ partners with chemical engineers and chemists to innovate in both chemical and non-chemical treatments for wastewater and construction water.
- Our advanced technologies leverage the latest in filtration and purification, offering a reliable and efficient solution for your industrial wastewater challenges.

EXPERTISE AND CAPABILITY

Our expertise spans a wide range of industries, including utilities, mining, oil and gas and galvanising and chemical productions. Each industry presents unique wastewater challenges. ICMQ Filtration brings together engineering and science to provide the following services:

Design and Installation

- Tailored technologies, such as membrane filtration, chemical addition and advanced oxidation processes.
- Integrations into custom systems that ensure effective pollutant removal.

System monitoring and maintenance

- Real-time monitoring technologies
- Continuous data collection and analysis

OTHER ICMQ WATER TREATMENT SOLUTIONS

- Lime Softening
- TMF General Solids Filtration
- Oil and Hydrocarbon removal/ recovery from water
- Difficult industrial water treatment



CONTACT US



ICMQ Filtration
4/274 Beatty Road, Archerfield Qld 4108
+617 3393 5311 | info@icmq.com.au
www.icmqfiltration.com.au

