WATERNA

ENGINEERING / PERFORMANCE / INSIGHT

ANALYTICS SOFTWARE

RO Insight™

Understand performance. Plan your next move.

The specialist analytics platform for reverse osmosis plants.

100+ engineering KPIs per rack

9 diagnostic engines

65 data-quality checks

20 dashboard pages



Built for reverse osmosis. Not a generic plant AI.

RO Insight™ combines your plant data with process engineering to show what is happening, why, and what to do next.

From fouling and scaling to energy use and cleaning, it gives you the clarity to improve performance, reduce operating costs and extend membrane life.

AI and machine learning, built for RO

RO Insight™ combines engineering logic, AI assistance and machine-learning models to help operators understand plant performance, detect abnormalities early, and act with confidence.

AI assistance

Plain-language answers, engineering summaries and smart reporting.

ML abnormality detection

Detects unusual behaviour and emerging performance issues before they become major problems.

Key features

Engineering KPI engine
100+ KPIs per rack, normalised and updated every 5 minutes.

Fouling & membrane health
Separates fouling from membrane damage before production drops.

CIP lifecycle
Scores every clean and forecasts when the next one is due.

Scaling risk
Shows scaling risk and identifies the likely limiting mineral.

Energy optimisation
Highlights the energy cost of fouling and checks ERD efficiency.

Fleet benchmarking
Ranks every rack so hidden underperformers stand out.

Live data & replay
Read-only OPC UA feed from your DCS, or replay your history.

Smart reporting
Clear, on-time reports with engineering context, findings and actions.

WATERNA

The RO Insight™ difference

Turning your plant data into clear decisions and measurable value.

Improve performance
Spot issues early and get more from your existing assets.

Reduce operating costs
Lower energy use, and fewer, better-timed cleans.

Extend membrane life
Stay ahead of fouling, scaling and degradation.

Lower risk
Act on problems before they affect production.

Drive sustainability
Less energy per cubic metre, and higher recovery.

Expert support
Backed by 20+ years of RO and water treatment engineering.

Read-only, always
Never writes setpoints or takes control of equipment.

Data stays on site
On-premise, with the AI assistant running offline.

Auditable results
Validated against a membrane manufacturer's calculations.

Data you can trust
65 checks flag bad or stale readings before they skew a result.

Start with your own data.

Analyse up to 12 months of historical plant data with RO Insight™ and receive a detailed report identifying potential operational improvements, energy savings, and opportunities to reduce operating costs.

1. **Share your data**
Send up to 12 months of operating data as a file export. No connection to your plant is required.

2. **Detailed assessment**
We run RO Insight™ and deliver a full performance report, tailored to your plant and operating conditions.

3. **Clear recommendations**
Receive a report highlighting operational improvements, energy savings and opportunities to reduce operating costs.

4. **Deployment**
On-premise or cloud.

5. **Connectivity**
Any DCS system, plus historical data replay.

6. **Commercial**
Flexible subscription, scaled to your plant.

Discover what RO Insight™ can reveal about your plant

Get in touch for a demonstration or to discuss your plant's specific requirements.

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