



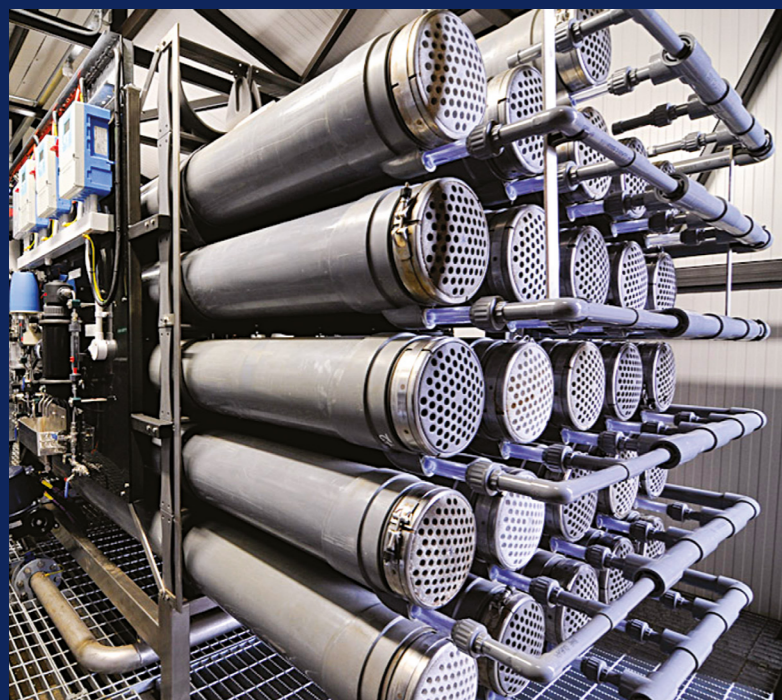
Compact Modular Treatment Plant

Municipal Treatment Range

ross-eng.com

Nanofiltration Plant
50<500m³ / DAY





An Introduction

Compact Modular Solutions



RSE offers its clients a complete modular design, build and installation engineering and construction service.

RSE is the market leader in the design, fabrication and delivery of award winning water treatment plants. Our specialist water treatment division has successfully delivered multiple modular plants offering tremendous environmental, quality and health and safety benefits over traditional on-site fabrication and assembly.

The RSE modular water treatment range offers a simple, robust solution. Our technologies include nanofiltration and ultrafiltration, reverse osmosis and other specialist processes for the supply of top quality water from poor quality raw water envelopes.

What we offer

Project cost certainty – offsite build means minimal site time

Programme efficiency and certainty – weather, site and logistical dependencies removed

Treatment processes tailored to individual site conditions

Consistently high build quality

Health and safety benefits from construction in a factory environment

Environmental benefits from offsite factory construction

Proven process engineering, factory tested

Standardisation for O&M's and commonality of spares

Guaranteed whole life costs

Inbuilt redundancy / supply resilience

Fully wet tested and pre-commissioned before load-out

Base unit replaces intrusive on-site civil works

Energy efficient plant reducing opex costs

Remote supervision and support facilities

Accelerated regulatory compliance, delivering top quality potable water

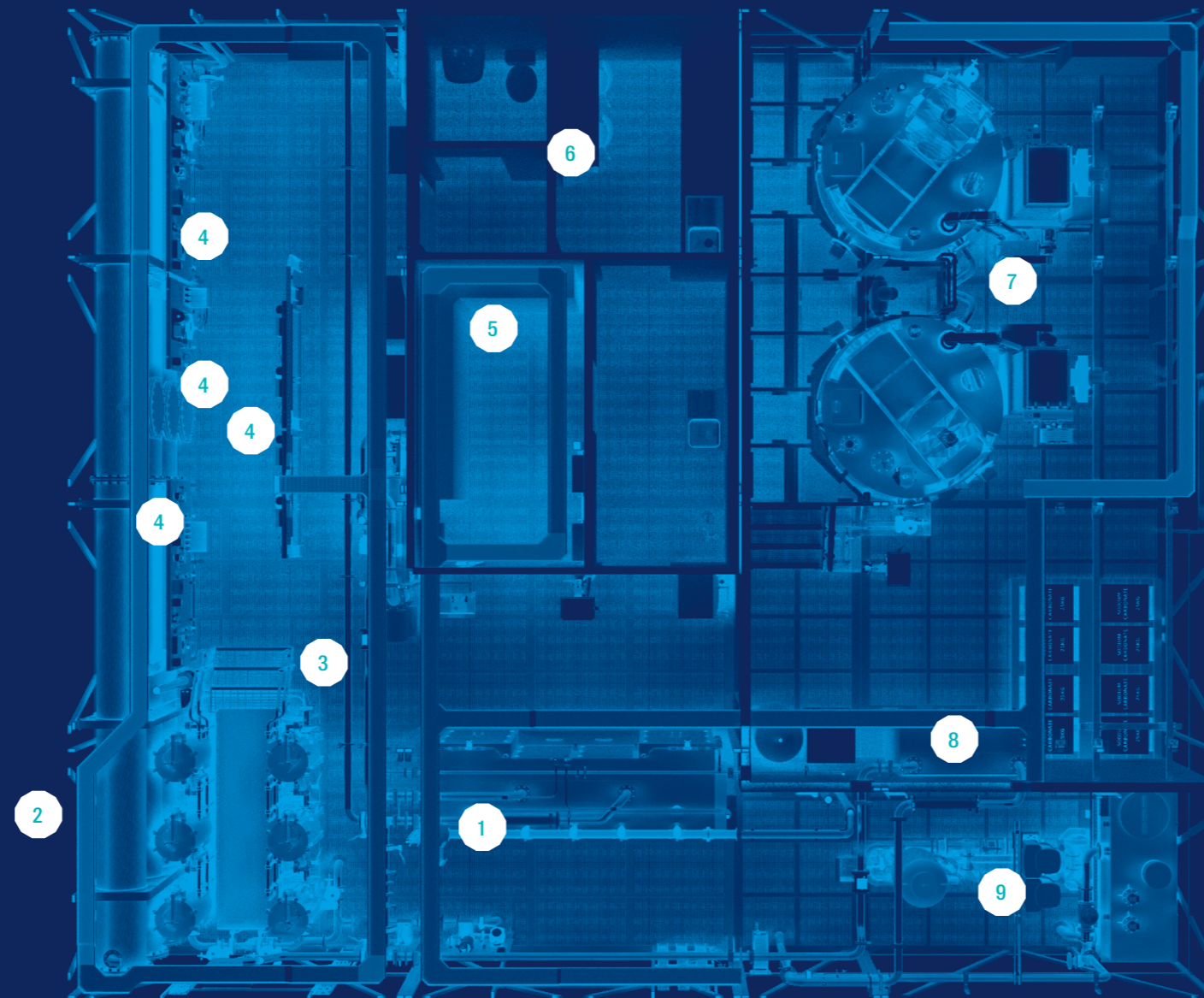
Guarantees customer satisfaction

Transportable treatment units are a relocatable investment



The Water Treatment Experts Compact Modular

Nanofiltration Plant
50<500m³ / DAY



The following ancillaries/ enhancements can be provided:

- Reverse osmosis
- Chloramination
- Plumbosolvency dosing
- UV disinfection
- Soda ash dosing (pH correction)
- Mess facilities

Our Compact Modular Treatment range includes the following as standard:

- BIM compliant autodesk inventor 3D model
- Factory assembly
- Factory testing and commissioning
- Duty standby equipment
- Water quality sampling instruments
- Integrated HMI (human machine interface)
- Telemetry
- IMCC (intelligent motor control centre)
- Profibus communications network
- Remote plant control

Transportable Treatment Units

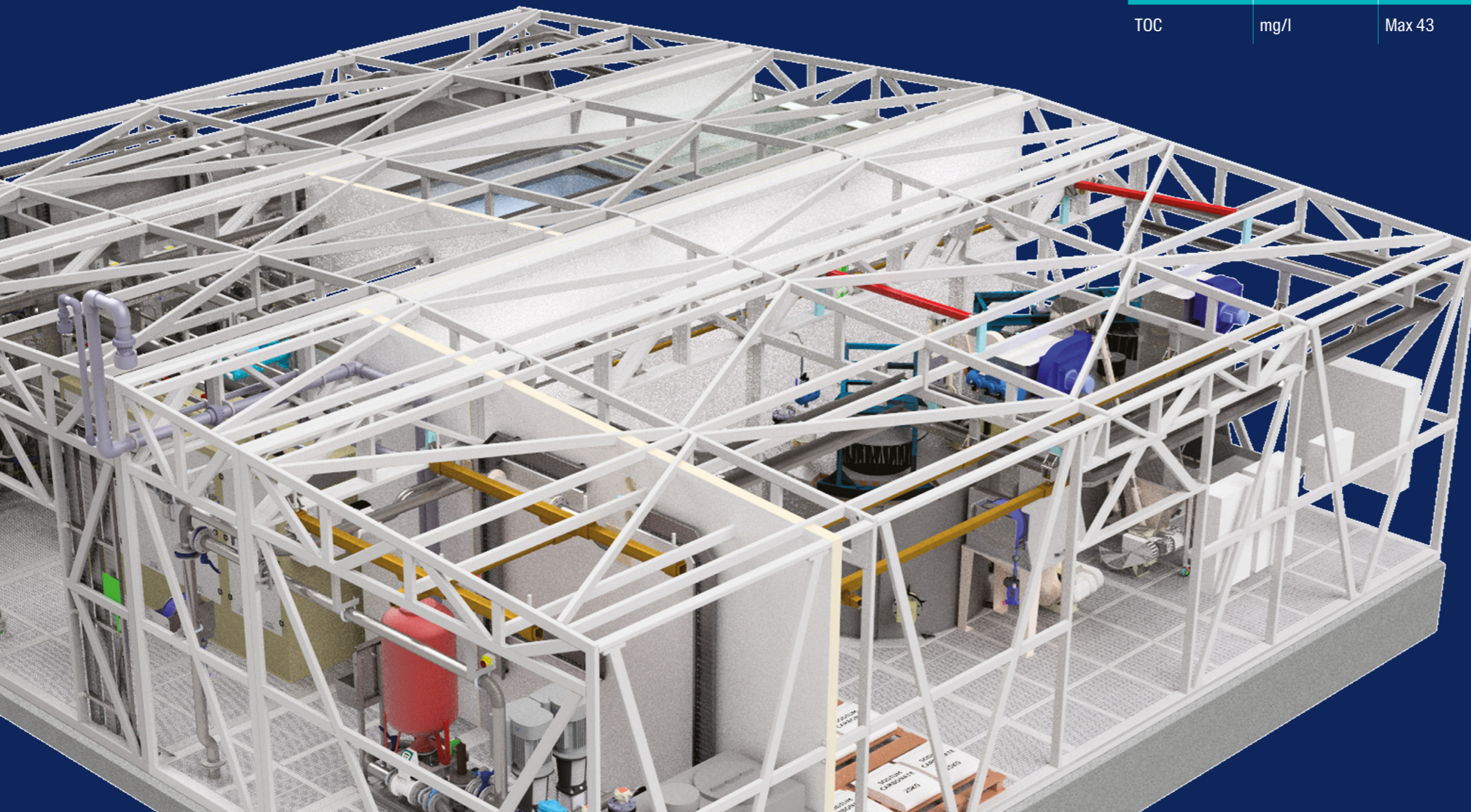
This range is particularly suited to municipal water supplies and industrial applications. Typical plant capacities range from 50 to 500m³/day. Each plant is contained within an innovative Transportable Treatment Unit (TTU). This is a plug and play water treatment plant housed within a steel frame building and base frame which can be fully assembled, factory tested and commissioned within our purpose built facility. All plants are fully proven before leaving our premises.

A range of robust solutions based on Nanofiltration treatment for the supply of excellent quality water from extremely poor quality raw water sources.

Integrated Components:

<p>01 Sodium Hypochlorite Skid</p> <p>Muir of Ord Design Install</p> <p>Dalgety Bay Design Fabricated</p>	<p>06 Welfare Facility</p> <p>Muir of Ord Design Fabricated Install</p>
<p>02 Electrical Fit Out</p> <p>Muir of Ord Design Fabricated Install</p>	<p>07 Sodium Carbonate Batching System</p> <p>Muir of Ord Fabricated Install</p> <p>Cumbernauld Design</p>
<p>03 Stainless Steel Pipework</p> <p>Muir of Ord Design Fabricated Install</p>	<p>08 Sodium Carbonate Dosing Skid</p> <p>Muir of Ord Install</p> <p>Dalgety Bay Design Fabricated</p>
<p>04 Instrument Sample Boards</p> <p>Muir of Ord Design Fabricated Install</p>	<p>09 Stainless Steel Pump Skid</p> <p>Muir of Ord Design Fabricated Install</p> <p>Saftronics Design Fabricated</p>

The Modular Water Treatment Experts



Nanofiltration Table of Treatment

Parameter		Raw Water	Final Water
pH	—	2.0>9.5	Typically 8.0
Turbidity	FTU	Max. 10	Less than 0.2
Colour	Deg H	Max. 430	Less than 2
Iron	µg/l	Max. 3670	Less than 7
Total Mn	µg/l	Max. 430	Less than 10
Total Al	µg/l	Max. 860	Less than 9
Susp Solids	mg/l	Max. 5.0	Trace
TOC	mg/l	Max 43	Less than 10

Why Nanofiltration?

- No chemical / sludge removal
- Fully automated membrane cleaning system
- Low chemical usage
- Unmanned operation
- Remote monitoring
- Profibus enabled
- Duty stand-by system
- Energy efficient management system



For more information and contact details visit

ross-eng.com