



PRODUCT PROFILE 2026

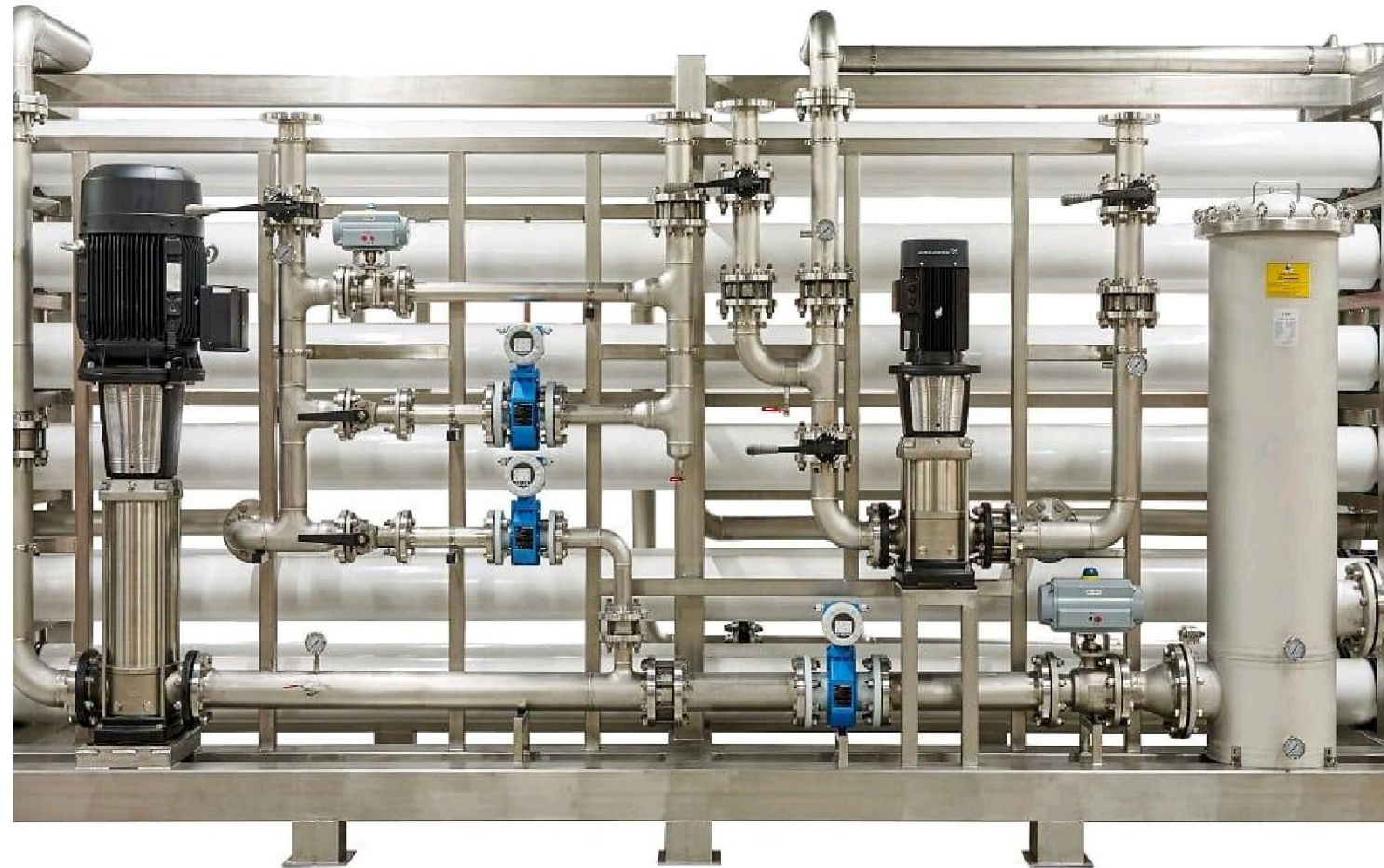
ENGINEERED WATER PRODUCTS

Reliable systems. Smarter treatment.
Better water performance.

INTELLIGENT WATER SOLUTIONS

A complete portfolio for water treatment systems and operations

- 01 Reverse osmosis systems
- 02 Filtration & membranes
- 03 Dosing & disinfection
- 04 Instrumentation & analysis
- 05 Valves, vessels & housings
- 06 Chemicals & filter media



1. Reverse Osmosis Systems

Packaged RO systems engineered for tap, brackish and seawater duties — from compact units to industrial-scale treatment trains.

1 Define feed & product quality

2 Select pretreatment

3 Size membranes & pumps

4 Integrate controls & dosing

5 Commission & optimize



Configurable RO skids with pretreatment, high-pressure pumping, membranes, instrumentation and automatic controls.

**Up to
99.5%**
salt rejection

Flexible
capacity &
configuration

**Auto-
mated**
monitoring & control

2. Cartridge Filters

Sediment, carbon and specialty cartridges for reliable particulate and chlorine removal across pretreatment and polishing applications.

- 1 Confirm contaminant target
- 2 Select media & micron rating
- 3 Match cartridge format
- 4 Verify flow & pressure drop
- 5 Plan replacement cycle



Sediment

spun or wound
options

Carbon

chlorine & organics

Multiple

sizes & ratings

Cartridge options include polypropylene and cellulose sediment filters, activated carbon and application-specific formats.

3. Filtration Vessels — FRP & Steel

Pressure vessels for multimedia filtration, activated carbon, softening and other media-based treatment duties.

- 1 Confirm process duty
- 2 Select FRP or steel
- 3 Size vessel & internals
- 4 Specify valves & media
- 5 Install & commission



FRP and fabricated steel vessels can be supplied with distributors, media, controls and supporting services.

FRP

corrosion resistant

Steel

large-duty solution

Complete

internals & support

4. Filter Housings

Single- and multi-cartridge housings in reinforced polymer or stainless steel for commercial and industrial filtration.

- 1 Set flow requirement
- 2 Choose cartridge length
- 3 Select material & rating
- 4 Configure ports & closure
- 5 Verify service access



Housing selection is matched to cartridge type, design pressure, compatibility, target flow and maintenance access.

10–40 in

standard lengths

PP / SS

material options

**Service-
able**

compact design

5. Membranes — MF, UF, NF & RO

Membrane elements selected around feedwater quality, required permeate quality, recovery, energy and fouling risk.

- 1 Characterize feedwater
- 2 Set quality objectives
- 3 Choose membrane class
- 4 Model flux & recovery
- 5 Define cleaning strategy



MF / UF

solids & colloids

NF

hardness & organics

RO

dissolved salts

Aquamatrix supports membrane selection across microfiltration, ultrafiltration, nanofiltration and reverse osmosis.

6. Chemical Dosing Systems

Metering pumps, tanks, mixers and control packages for precise, safe chemical preparation and injection.

- 1 Define chemical duty
- 2 Calculate dose range
- 3 Select pump technology
- 4 Design storage & mixing
- 5 Integrate interlocks



Dosing packages can be configured for antiscalant, coagulant, disinfectant, pH correction and other treatment chemicals.

Precise

adjustable dosing

Safe

contained handling

Integrate

signals & alarms

7. Water Analysis Equipment

Portable and online instruments for operational control, field assessment and water-quality verification.

- 1 Define parameters
- 2 Select field or online use
- 3 Set range & accuracy
- 4 Plan calibration
- 5 Connect data logging



Equipment coverage includes multiparameter meters, water-level and temperature loggers, and process analyzers.

**Multi-
paramete**
field measurement

Online
process monitoring

Logged
traceable data

8. Water Treatment Chemicals

Specialty chemical programs for pretreatment, RO, boilers, cooling systems, wastewater and industrial cleaning.

1 Test water chemistry

2 Identify treatment objective

3 Select formulation

4 Optimize dosage

5 Monitor performance



RO

antiscalant &
cleaning

Utilities

boiler & cooling

**Waste-
water**

process support

Portfolio includes biocides, antifoams, polymers, odor-control solutions, cleaning chemicals and application-specific programs.

9. UV Sterilizers

Chemical-free ultraviolet disinfection systems using germicidal UV for bacteria, viruses and other microorganisms.

1 Confirm UV transmittance

2 Set design dose

3 Size reactor & lamps

4 Add sensors & controls

5 Plan lamp maintenance



Chemical-free

disinfection

Immediate

treatment action

Low-touch

automatic operation

UV systems are integrated as a final barrier where reliable microbial control is required without chemical residual.

10. High-Pressure Membrane Vessels

Membrane housings engineered for RO and NF systems, including high-pressure duties and multiple element configurations.

- 1 Set operating pressure
- 2 Confirm element format
- 3 Choose construction
- 4 Select port arrangement
- 5 Verify code & testing



Pressure vessels are matched to membrane size, pressure class, porting, closure system and skid arrangement.

**Up to
1,200 psi**

high-pressure
options

FRP / SS

construction choice

Modular

multi-element
layouts

11. Automatic Control Valves

Top- and side-mounted control valves for filtration, softening and ion-exchange systems with timed or metered operation.

1 Define vessel service

2 Select mounting mode

3 Confirm flow capacity

4 Choose control logic

5 Program regeneration



Automatic valves manage service, backwash, rinse and regeneration sequences for stable, repeatable performance.

Top / side

mounting options

**Time /
volume**

control modes

Automatic

service cycles

12. Filtration Media

Selected media for turbidity, iron, manganese, chlorine, organics, color, taste and odor removal.

1 Characterize contaminants

2 Choose media combination

3 Set bed depth & grading

4 Define backwash rate

5 Plan media replacement



**Sand /
garnet**

graded filtration

Anthracite

multimedia polishing

**Carbon /
catalytic**

targeted removal

Get in Touch

Let's create more value from every drop

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Let us discuss your water challenge and define the right next step.



OUR PRODUCTS

- RO Systems
- Cartridge Filters
- Filtration Vessels
- Filter Housings
- Membranes
- Dosing Systems
- Water Analysis Equipment
- Treatment Chemicals
- UV Sterilizers
- Pressure Vessels
- Control Valves
- Filtration Media

Engineered Products. Reliable Water Performance.