

Industrial Water Treatment

Distributor & OEM Guide

Selecting the Right Equipment for RO, EDI, Filtration & Pumping Systems

SECTION 1 — OVERVIEW

How to approach industrial water treatment system design: start with a comprehensive water analysis to determine feed water chemistry, including hardness, alkalinity, TDS, silica, iron, and microbiological content. Next, clearly identify the treatment objectives, such as producing process water, high-purity water for manufacturing, boiler feed water, or cooling tower makeup. Based on these targets, select the right technology train, which typically includes pre-treatment (media filtration, softening, or antiscalant dosing), reverse osmosis (RO) for bulk contaminant removal, followed by electrodeionization (EDI) or ion exchange (IX) for polishing, and final polishing with UV or submicron filters. Equipment must be matched to flow rate, water chemistry, and quality targets to ensure reliable, cost-effective operation. The role of a distributor and OEM, such as Purecowater, is critical in specifying the correct components, sourcing genuine parts from authorized manufacturers like Veolia, Tonkaflo, ErtelAlsop, LG Membranes, and Eaton, and integrating the complete system for seamless performance and compliance.

SECTION 2 — EQUIPMENT SELECTION GUIDE

- High-purity water: RO followed by EDI for consistent resistivity and low TOC.
- Scaling feed water: antiscalant injection plus sodium softening to prevent membrane fouling.
- Particulate removal: depth filtration (multi-media or sand) followed by cartridge polishing.
- Pump sizing: Tonkaflo multistage centrifugal pumps for high-pressure RO feed.
- Membrane replacement: Veolia, Dow Filmtec, or LG equivalents for exact fit and performance.
- Contact Purecowater for system design assistance, equipment sourcing, and integration support.

REQUEST A QUOTE

Purecowater

*Your Next Industrial Filtration Project
Made Simple.*

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WEBSITE

www.purecowater.com

Peachtree City, GA

BRANDS WE DISTRIBUTE

- Veolia / SUEZ
- Tonkaflo Pumps
- ErtelAlsop
- LG Membranes
- Fil-trek
- WTS
- Engineered Solutions

**20+ years of industrial filtration
expertise. Contact us for pricing,
sizing & availability.**

Product Specifications

Publisher	Purecowater
Guide Type	System Selection & Design Reference
Step 1	Water analysis — know your feed chemistry
Step 2	Define quality target — process, high-purity, boiler
Step 3	Select technology train — pre-treatment, RO, EDI
Step 4	Size pumps and membranes to flow rate
Step 5	Contact Purecowater for equipment selection
Brands	Veolia, Tonkaflo, ErtelAlsop, LG, Eaton, Dow
Contact	info@purecowater.com purecowater.com

Contact Purecowater to Order

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Pricing, availability, sizing assistance, and replacement parts. 20+ years industrial filtration experience.

Purecowater is an authorized distributor and OEM for Veolia/SUEZ, Tonkaflo (Pentair), ErtelAlsop, LG Membranes, Fil-trek, WTS, and Engineered Solutions. Specifications subject to change. Contact Purecowater for current pricing and availability.