Vidara

PARTNERING FOR LIFE

PORTFOLIO







WATER TREATMENT

PORTFOLIO

- Filtration Systems
- Ion Exchange Resin
- Membranes (UF/NF/RO)
- Filtrations / Absorbents
- Pressure Vessels
- Pressure / Brine Tanks
- Process Chemicals
- Supplementary Components
- Control / Measurement
- Systems (Softening/RO/NF/RO)

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FILTRATION HOUSING



Comprehensive housing portfolio: single- and multi-cartridge, bag, high-flow, FRP (fibreglass) and sanitary vent/inline designs in SS 316 L/304, coated carbon steel, PP, PVC-U or filament-wound FRP.

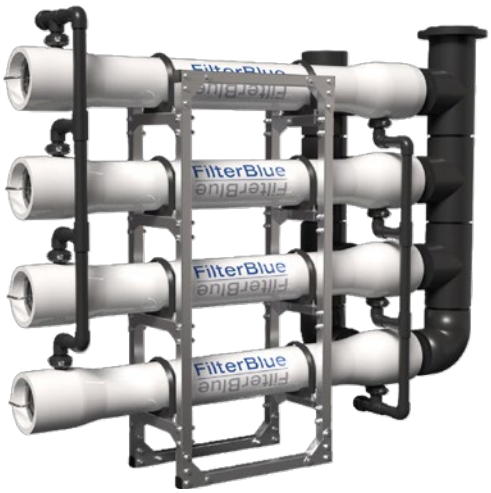
Core performance window: flow rates ~1 – 400 $m^3 h^{-1}$, pressures up to 16 bar, temperatures to 150 °C for steel (60 °C for FRP); accommodates 5 – 40 cartridges or bag sizes 1 – 4.

Typical service areas: process & ultrapure water, food/beverage and pharma lines, paints & coatings, seawater-RO pre-treatment, utility loops, tank vents and sterile-gas polishing.

Key benefits: high throughput with compact footprint, rapid element change-out (swing-bolt or quick-open lids), corrosion/CIP resistance, hygienic versions fully validatable.

Selection & maintenance factors: fluid compatibility, hygienic vs industrial finish (down to Ra ≤ 0.6 µm electropolished), connection style (Tri-Clamp, flange, threaded), optional Δp monitoring and davit-arm covers for safe handling.

FILTRATION HOUSING



High-Volume Self-Cleaning Filters

- Differential-pressure-triggered back-wash cleans the element in seconds with minimal rinse water
- 316L stainless-steel or PA housings handle up to 8 bar operating pressure while maintaining high flow rates

High-Volume Bag Filter Stations

GRP pressure vessels (BagBlue series) resist corrosion and seawater; scalable from 36 m^3/h upward

Multiple interchangeable PVC filter baskets (50 – 3000 µm) let you adapt quickly to changing loads

High-Volume Cartridge Filter Stations

Modular, stackable high-flow housings; double-gradient cartridges maximize dirt-holding capacity at low Δp

"One-size" cartridge concept and tool-free change-out (< 1 min) cut inventory and maintenance costs

ION EXCHANGE RESINS



Cation exchange resins
Efficiently remove positively charged ions such as calcium, magnesium, sodium and heavy metals. Ideal for water softening, demineralization and process water treatment.

Anion exchange resins
Designed to capture negatively charged ions such as chlorides, sulfates, nitrates and silica. Commonly used for demineralization, polishing and ultrapure water production.

Mixed bed resins
Combine cation and anion exchange resins for maximum ion removal in a single step. Perfect for final polishing and high-purity water applications.

Resins for organic removal
Specialized adsorber resins for reducing organic contaminants, color bodies and trace impurities. Used to protect downstream systems and improve water quality.

Resins for nuclear applications
High-purity, uniform resins engineered for demanding nuclear water circuits. Suitable for condensate polishing, radioactive ion removal and ultra-clean process control.

MEMBRANE - ELEMENT - SHEET



Reverse Osmosis
Suitable for brackish water and seawater desalination with high salt rejection. Fouling-resistant membranes ensure stable operation and reduce cleaning requirements. Low energy consumption and high recovery help reduce operating costs and wastewater volumes.

Nanofiltration
Ideal for partial desalination, softening, and reduction of organic compounds. Premium and Full-Fit elements provide efficient and hygienic flow distribution. Especially suitable when selective rejection is required instead of complete desalination.

Ultrafiltration
Reliably removes particles, turbidity, bacteria, and colloidal substances. Often used as pretreatment before RO systems to protect downstream membranes. Racks and modules offer flexible solutions for industrial and municipal water treatment.

DUPONT™ INTEGRATEC™ RACK



Ultra-compact rack design:

- The IntegraTec™ T-Rack from Inge under DuPont integrates feed- and drain-manifolds into each module, trimming pipework and cutting footprint by up to 60 % compared with conventional UF skids.
- Plug-and-play, scalable modules: Pre-fabricated rack rows arrive ready to install; each row can run as its own filtration line and additional rows slip in easily as demand grows - reducing civil costs today and expansion costs tomorrow.
- Robust Multibore™ PES fibers: 0.03 µm pores achieve up to 6-log bacteria removal while the mechanically strong, chemically resistant fibers deliver long life and consistent filtrate quality even on challenging feedwaters.
- Wide application envelope: Proven performance in municipal drinking water, seawater RO pretreatment, industrial process water and wastewater reuse ensures reliable SDI-low feed for downstream processes.
- Backed by a global leader: Supported by DuPont's decades of UF expertise, worldwide service network and a broad IntegraTec™ modules portfolio (60–95 m^2), giving operators single-supplier confidence throughout the asset's life.

LIQUI-CEL™ MEMBRANE CONTACTORS



Application

Steam Generation Plants
- CO_2 removal upstream of anion exchange
- O_2 removal from boiler feed
- Dissolved gas removal in condensate return

Microelectronics
- O_2 removal from DI water
- CO_2 removal to extend life of ion exchange beds and improve performance of EDI

Pharmaceutical
- NCG (non-condensable gases) removal
- CO_2 removal in WFI (water for injection)
- Debubbling for analytical equipment

Beverage
- Carbonation of soft drinks
- Deoxygenation of pushing and dilution water (high gravity)
- Wine treatment (gas control)
- Nitrogenation of beer

Other applikations: De-ionized Water; Municipal; Offshore Oil & Gas; Analytical Equipment; Inks & Coatings

RAVASOL™ ACTIVATED CARBON



APPLICATION

Potable & process-water polishing – powdered grades such as PAC B 200-8 EO adsorb taste- and odour-causing molecules, colour bodies and trace organic micropollutants, producing crystal-clear, neutral-tasting water.

Edible-oil bleaching & stabilisation – high-purity powdered carbons strip out carotenoids, chlorophyll, oxidation by-products and free fatty acids, lightening colour and extending shelf-life of cooking oils.

VOC & odour abatement in exhaust air – granular (GAC C-48) and pelletised (GAC P4-40 / P4-50) carbons capture volatile organic compounds such as benzene or toluene, eliminating nuisance smells from industrial, landfill and biogas plants.

Flue-gas scrubbing in waste-incineration – specialised powders (PAC FG-300 / FG-600) bind highly toxic dioxins, furans and heavy metals (Hg, Pb, Cd), helping plants comply with stringent emission limits.

Corrosion control in biogas & process-gas lines – impregnated pellets (GAC P4-60 KOH, P4-60 H_3PO_4) selectively remove acidic H_2S or basic NH_3, protecting compressors, engines and catalysts.

Ultra-pure water for dialysis & sensitive processes – acid-washed granular carbon (GAC B-1240 AW) eliminates residual chlorine and trace organics while keeping pH neutral, ensuring medical-grade water quality.

RAVASOL™ IRON-X IRON HYDROXIDE



APPLICATION

Ground- & drinking-water polishing: the iron-hydroxide media adsorbs both As(III) and As(V), reliably pushing arsenic below 10 ppb.

Phosphate control in municipal wastewater: IRON-X captures orthophosphate in a single-use fixed bed, helping treatment plants meet tight phosphorus discharge limits without continuous chemical dosing.

Lake, pond & basin remediation: deployed in side-stream filters or permeable barriers, the media strips soluble phosphate from natural waters to curb algal blooms and eutrophication.

Industrial effluent polishing for oxy-anionic metals: high affinity for selenium, antimony, molybdenum and chromate enables ppb-level compliance in complex waste streams.

Rapid capture of copper & zinc: typical contact times of < 3 minutes remove these dissolved heavy metals before they foul membranes or ion-exchange resins.

Hydrogen-sulfide mitigation: IRON-X oxidises and binds H_2S, with capacities up to 20 % of the media dry weight—ideal for odour or corrosion control in water and biogas conditioning systems.

FILTRATION



Filter type	Material	Size (µm)	Typical applications	Key advantages
Melt-blown depth cartridges	PP, PE, PA	1–100	Prefiltration of process & ultrapure water, chemicals, solvents	High dirt-holding capacity, cost-effective, FDA-compliant
Wound cartridges	Cotton, PP, glass fibre	1–150	Cooling & lubricating fluids, paints, coatings	Temperature-resistant, regenerable by back-flushing
Pleated cartridges	PP, glass fibre	0.2–40	Food & beverage, pharmaceutical pre-stage, CIP solutions	Large surface area > low Δp, autoclavable
High-flow cartridges	PP melt-blown, glass fibre; lengths 20″/40″	1–50	Large-scale plants (e.g. cooling water, seawater desalination)	High flow rate, small footprint
Membrane cartridges	PES, Nylon, PTFE, PFA	0.05–1.2	Fine & sterile filtration, final filtration upstream of membrane systems	Defined cut-off porosity, chemical resistance
Bag filters	PE, PP, Nylon	1–800	Raw water, coatings, auxiliary chemicals	Quick bag change, flexible flow rate
Self-cleaning filters	Stainless-steel wire mesh	50–800	Heavily loaded media (e.g. cooling-tower return), CIP lyes	Inline back-flush, minimal downtime
Sterile-grade filters	PES, PTFE	0.2–0.45	Cold beverage filling, pharmaceutical final stage	≥ 10^7 LRV for B. diminuta, fully validatable
Basket filters (screen insert)	Stainless steel	100–3000	Coarse protection upstream of pumps	Very robust, easy to clean

PRESSURE VESSELS



- Made of glass fiber reinforced plastic
- Sizes: 2.5", 4", 4.6", 8" for all Membranes
- Pressures up -space- to1740 psi(120bar)
- Each vessel is tested to 1.1 times working pressure
- Code X accreditation ASME (code stamp if required)
- End port and various side port solutions
- Including matching Victaulic couplings
- Victaulic couplings available in all sizes
- Complete with FEP Liner (for corrosive applications)
- Customization; R&D Design; Technical Support
- Privat Label and Any RAL Colour
- We can support you with the design

www.phoenixvessel.co.uk

PRESSURE TANKS



Lightweight, corrosion-proof composite shell
Fiberglass reinforcement eliminates rust, keeps weight low for easier handling and transport, and requires virtually no repainting or anti-corrosion maintenance.

Broad, customizable size range
Standard diameters up to 79 in (≈ 2 045 mm) with net volumes from up to >7 500 L; height, manholes, domed or side openings, colours and sight-glass options can all be specified to match the installation.

Food-grade seamless inner liner
One-piece PE or ultra-pure PE liners prevent leakage and microbial growth, making the vessels suitable for potable-water, ultrapure-water, and CIP applications.

Industrial operating performance
Multilayer composite construction typically handles 6 – 10 bar continuous pressure (higher-pressure versions up to ~16 bar are available) and temperatures to about 50 °C, covering softening, filtration, and RO pretreatment duties.

Quick system integration & serviceability
Standard 2½ –4 threaded ports or 6 /DN flanged connections, optional ASME design / hydrostatic test certificates, and add-ons such as lifting lugs, EasyCon side ports, vents and built-in distribution systems simplify installation, inspection, and media exchange.

PROCESS CHEMICALS

Food and Beverage



RAVASOL™ Clean

- Environmentally friendly cleaning enhancers and preservation solutions

RAVASOL™ Scale

- EffectiveAntiscalants

RAVASOL™ Add

- Environmentally friendly cleaning enhancers and preservation solutions
- Compatible with commercially available membranes
- Improved membrane protection and extended service life
- Cost-efficient thanks to process optimization, including increased plant yield, reduced system downtime, and less frequent cleaning
- Manufactured in Germany in accordance with § 11 of the German Drinking Water Ordinance (TrinkwV) and DIN EN 15039 and DIN EN 15040

PROCESS CHEMICALS

Wastewater



- Compatible with commercially available membranes
- Improved membrane protection and extended service life
- Cost-efficient thanks to process optimization, including increased plant yield, reduced system downtime, and less frequent cleaning

RAVASOL™ CA 100 ECO

- EDTA free alkaline Cleaner concentrate for treatment of organic residues & Biofouling on RO Membrane

RAVASOL™ CS 100 ECO

- EDTA free acidic Cleaner concentrate for treatment of inorganic residues & Scaling on RO Membranes

RAVASOL™ Scale AW26

- Antiscalant for industrial use - based on phosphonic acids

FLEXIBLE PIPE JOINING



- Mechanical pipe couplings for fast and secure connection of grooved piping systems.
- Robust construction with housing segments, bolts, nuts and integrated gasket.
- Suitable for industrial applications in water, process and utility piping systems.
- Enables easy installation, maintenance and disassembly without welding.
- Available in different designs, including painted steel, stainless steel and corrosion-resistant versions.
- Engineered for high operational safety, tight sealing performance and durability in demanding plant environments.
- Available in all common sizes.

CLACK FILTER MEDIA



Birm — insoluble catalyst that relies on dissolved oxygen to oxidise and precipitate iron & manganese, letting systems treat well water without chemical regenerants.

Filter-Ag — angular quartz grains create deep-bed mechanical filtration that traps turbidity to ≈20 µm while keeping pressure drop and back-wash water low.

Filter-Ag Plus — enormous micro-porous surface (≥100 × sand) captures particles to 3 µm, giving high sediment capacity and long run times before backwash.

Filter-Ox — catalytically oxidises iron, manganese and H_2S over a wide pH range, then filters the precipitate in the same bed for single-tank treatment
Greensand Plus — removes soluble iron, manganese, H_2S, arsenic & radium; works with an upstream oxidant feed and periodic $KMnO_4$ regeneration.

Calcite — slowly dissolves to lift acidic water to neutral, preventing corrosive metal leaching while self-limiting to avoid over-correction.

Corosex — much faster-acting than Calcite; ideal where larger pH increases or higher flow rates demand rapid neutralisation (often blended with Calcite).

Garnet — 3.8-4.2 g cm ^{3} almandine garnet forms the bottom of multimedia beds, giving fine (≈10 µm) final filtration and anchoring lighter layers.

Anthracite — sits above sand/greensand in multimedia filters; its hardness and low weight provide a pre-filtration layer that lengthens filter runs.

CLACK CONTROL VALVES



- Engineered specifically for water softening, filtration or iron/manganese removal.
- Modular, non-corrosive plastic bodies and snap-fit parts let technicians service or re-configure a valve in minutes without special tools.

NO SCREW TO LOSE !

- Fully programmable cycle times, flow-meter-driven regeneration, and multilingual (including German)
- Wide range of sizes (up to 3") and flow capacities up to ~950 lpm make them suitable for residential, light-commercial, and industrial applications.
- Tested to NSF/ANSI 44 & 61 standards, ensuring safety for potable water while maintaining low pressure loss.
- Wide range of service products, e.g., water meters, bypasses, injectors, or flow regulators.

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- Over 25 years of experience in water treatment
- Broad, harmonized water product portfolio
- Strong, long-term partnerships with renowned manufacturers
- High quality at reasonable prices
- Customized solutions for special requirements
- Services such as stockpiling and private labelling
- Innovative technologies thanks to proximity to both industry and research
- Experienced team of technically skilled employees
- Fast, friendly, and flexible customer service

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WATER TREATMENT

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