

*INAQUA*TM

powered by water

PORTFOLIO
WATER TREATMENT



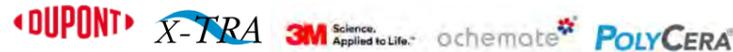
PORTFOLIO REVERSE OSMOSIS

MEMBRANE TECHNOLOGY

Membrane systems for reverse osmosis, nano- and ultrafiltration as well as membrane degassing



- Filmtec™ Reverse osmosis and nanofiltration elements
 - 1.5" - 8" diameter
 - Desalination of brackish, seawater and drinking water
- IntegraTec™ Ultrafiltration
 - Membrane area of up to 80 m²
 - Removal of solids
- 3M™ Liqui-Cel™ Membrane contactors
 - Wide range of sizes and designs
 - Removal of gases such as CO₂ and O₂
- Ochemate Capillary nanofiltration modules in their own housing
 - Membrane area of up to 55 m²
 - Reduction of water hardness, removal of organics and humic substances
- PolyCera® Nano- and ultrafiltration elements
 - Solids content up to 10,000 mg/l due to large 120 mil spacer
 - Treatment of water containing oil and grease with up to 50 mg/l
- X-Tra Reverse osmosis and nanofiltration elements
 - Customised membrane material and spacers
 - Private labelling



CONTROL UNIT

Yara VaGo control and monitoring systems



- Automatic control and regulation of reverse osmosis, nanofiltration, ultrafiltration, softening, and filtration systems
- Intuitive operation and programming via touch panel
- Connection to control rooms
- Analogue and digital inputs and outputs can be freely parameterised
- Integrated data recorder
- Remote monitoring via mobile devices

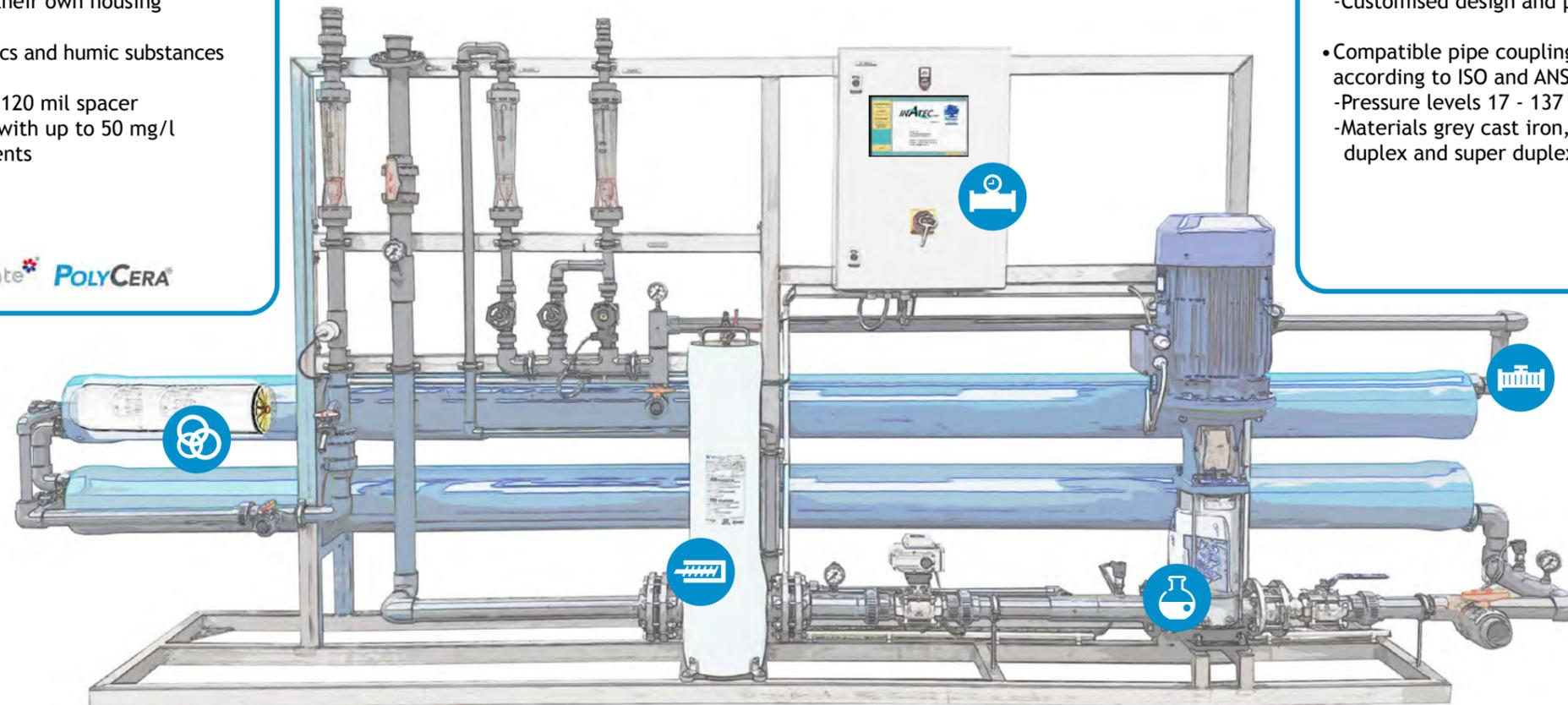


PRESSURE VESSELS

Pressure housings for membranes in GRP and stainless steel



- Pressure tubes made of glass-fibre reinforced plastic or robust stainless steel
 - 2.5" - 10" diameter
 - Pressure levels 10 - 120 bar (150 - 1740 psi)
 - End port and side port solutions with multiple port configurations
 - Versions according to PED or ASME X
 - Customised design and painting available
- Compatible pipe couplings for applications according to ISO and ANSI standards
 - Pressure levels 17 - 137 bar (250 - 2000 psi)
 - Materials grey cast iron, stainless steel 316L, duplex and super duplex steel, plastics



FILTRATION SYSTEMS

Standard · FilterBlue · FilterBlanc · FilterBlack · FilterMax



- Standard filter cartridges and housings
 - Length 9 3/4" - 40"
 - Filtration gradient 100 - 1 µm
 - Meltblown, spiral-wound, pleated, optionally washable
- Exclusive modular filtration systems in GRP and stainless steel
 - Flow rate 18 - 216 m³/h
 - Filtration gradient 3,000 - 1 µm
 - (Backwashable) Filters, basket filters, bag filters
 - Reusable high-performance filter cartridges
- Automatic backwashable filter systems in GRP and stainless steel
 - Flow rate 18 - 216 m³/h
 - Filtration gradient 800 - 50 µm
- Production in Europe



MEMBRANE CHEMICALS

RAVASOL™ · Vitec™ · RoClean™ · Kuriverter™



- Antiscalants
- Acidic and alkaline membrane cleaners
- Cleaning enhancers
- Biocides and preservative solutions

- Extending membrane service life
- Increasing the plant performance
- Manufactured in Europe according to § 11 of the German Drinking Water Ordinance (TrinkwV) and according to DIN EN 15039 and DIN EN 1504



PORTFOLIO SOFTENING / FILTRATION

CONTROL AND MEASUREMENT TECHNOLOGY

Modules for process monitoring and control

- Save Cost C - quality-controlled regeneration
- Colormetry - residual hardness measurement
- SALIS - salt deficiency probe
- Chlorine electrolysis cell - disinfection
- Clack system controller
- Yara VaGo - system control



ION EXCHANGE RESINS

AmberLite™ · AmberLyst™
AmberSep™ · AmberChrom™
AmberSorb™ · TapTec™

- Strongly/weakly acidic cation exchangers
- Strongly/weakly basic anion exchangers
- Mixed bed
- Scavenger
- Adsorbants



FILTRATION MEDIA

Birm® · FilterOx™ · Filter-Ag®
RAVASOL™ · Ecomix®

- Filter gravel
- Oxidative media for Iron Removal
- Neutralisation
- Activated Carbon
- Softening



ADDITIONAL COMPONENTS

Supplementary components for softening and filtration systems

- Connecting and bypass fittings, optionally with pressure compensation, test, or mixing valve
- Connecting hoses
- Piping
- System separators



CENTRAL CONTROL VALVES

Control units for softening and filtration plants

- 1" - 1.25" - 1.5"
 - For tank sizes from 6" - 30"
 - Flow rate service 6" - 13 m³/h
 - Flow rate backwash 6" - 9 m³/h
- 2" - 3"
 - For tank sizes from 12" - 63"
 - Flow rate service 26 - 56 m³/h
 - Flow rate backwash 18 - 49 m³/h
- Time-, volume- or quality-controlled regeneration
- Individual configuration, including up to 9 freely programmable regeneration cycles
- Connections for hard water bypass and/or alternator
- Exclusive IA valve with five system languages (DE, EN, FR, POL, ES)



PRESSURE AND BRINE TANKS

Pressure and brine vessels for softening and filtration plants

- Commercial pressure tanks 5" - 13"
- Industrial pressure tanks 14" - 63"
- Optionally with dome hole or side connection
- All common distributor systems
- Brine tanks with matching brine valve incl. riser pipe and float
- Regenerating salt



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