

SOLYS 🕢 VEOLIA

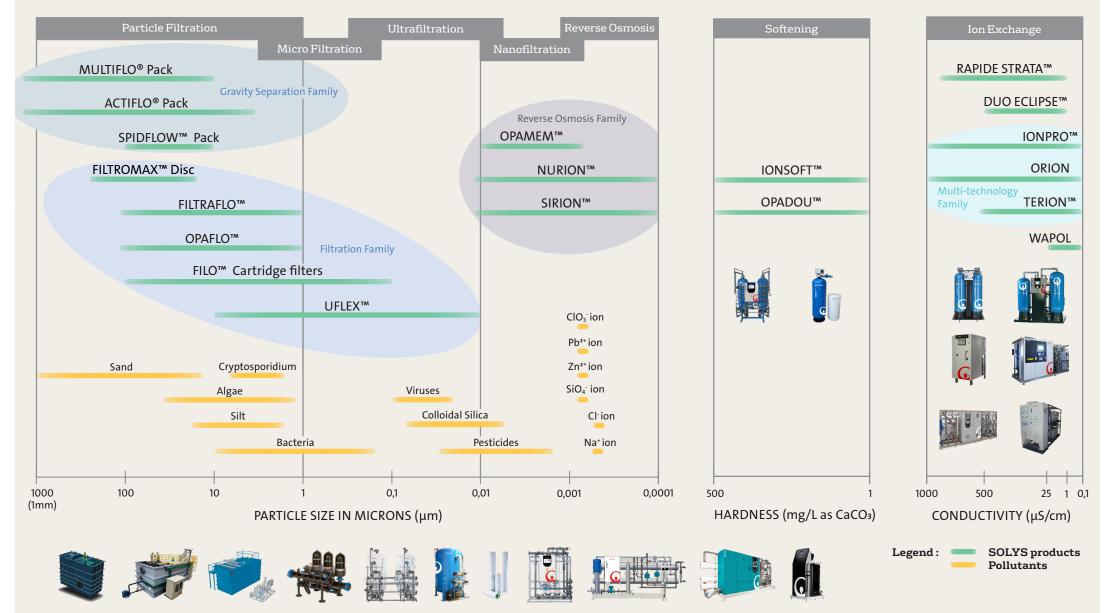
SOLYS RO Products

Pocket Guide

WATER TECHNOLOGIES



SOLYS STANDARD PRODUCTS TREATMENT SPECTRUM

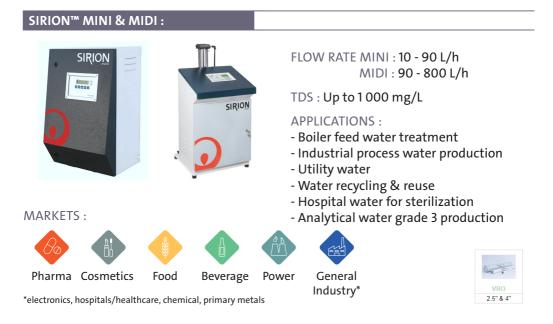


WATER TECHNOLOGIES

Full RO Products

SIRION[™] :

SIRION[™] family is a set of reverse osmosis product ranges that produce high purity water, removing up to 98% of dissolved inorganics and over 99% of large dissolved organics, colloids and particles.



SIRION[™] ADVANCED & PRO :



Pharma Cosmetics



MARKETS :





Beverage

Power

General

Industry*

FLOW RATE : 100 - 5 000 L/h

- Boiler feed water treatment

Water recycling & reuse
Hospital water for sterilization
Analytical water grade 3 production

- Industrial process water production

TDS : Up to 1000 mg/L

APPLICATIONS:

- Utility water



*electronics, hospitals/healthcare, chemical, primary metals

Food

SIRION[™] MEGA SF :



FLOW RATE : 5 - 30 m³/h

TDS : Up to 1000 mg/L

APPLICATIONS :

- Boiler feed water treatment
- Industrial process water production

20", 30" & 40"

8"

- Cooling water
- Water recycling & reuse
- Utility water

MARKETS :









General Industry*



*electronics, hospitals/healthcare, chemical, primary metals

SIRION™ MEGA HF :	
	FLOW RATE : 32 - 139 m³/h
	TDS : Up to 5 000 mg/L
	APPLICATIONS : - Boiler feed water treatment - Industrial process water production - Cooling water - Water recycling & reuse - Utility water
MARKETS :	
Pharma Cosmetics Food Beve	age Power General Industry*
*electronics, hospitals/healthcare, chemical, prima	

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SIRION[™] SEAWATER :



MARKETS :



*electronics, hospitals/healthcare, chemical, primary metals

FLOW RATE : 1 - 41 m³/h

TDS : Up to 42 000 mg/L

APPLICATIONS :

- Boiler feed water treatment
- Cooling tower make-up
- Industrial process water production
- Drinking water production
- Concentrate recovery
- Utility water
- Irrigation



SENSA[™] :

Double pass reverse osmosis system produces demineralised water for the Cosmetics Industry.



MARKETS :



FLOW RATE : 1.4 to 10m³/h

TDS : Up to 1000 mg/L

APPLICATIONS :

- Utrapure water production
- Industrial process water production
- Utility water

HIGHLIGHTS :

- High recovery to minimize water losses (up to 90%)
- Plug & play unit
- Easy access for operation and maintenance



RO-CEDI Products

Single-skid unit that combines single-pass reverse osmosis and continuous electrodeionization to remove over 99.9% of dissolved inorganics and over 99% of large dissolved organics to produce deionized water meeting the most stringent specifications in silica, sodium, potassium and TOC levels.

TERION[™] :



MARKETS :



*microelectronics, metal industries, data centers

FLOW RATE : 5 - 50 m³/h

TDS : Up to 800 mg/L

APPLICATIONS:

- Boiler feed
- Turbine injection
- Industrial process water production
- Ultrapure water production

HIGHLIGHTS :

- Chemical free alternative using CO₂ membrane degasser
- High availability and performance
- Single skid product with low energy consumption



TERION[™] S :



MARKETS :



FLOW RATE : 110 - 4 000 L/h

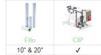
TDS : Up to 750 mg/L

APPLICATIONS :

- Boiler feed water treatment
- Analytical water grade 2 production
- Industrial process water production
- Water for sterilisation
- Ultrapure water production

HIGHLIGHTS :

- Instrumentation and valves at the front of the unit for easy maintenance and operation
- Compact design with optional degasser



*microelectronics, hospitals, laboratories, data centers

RO system for F&B Industry

Reverse osmosis system which produces high purity ingredient water for the Food & Beverage Industry.

NURION[™] :



MARKETS :



FLOW RATE : 5 - 25 m³/h

TDS : Up to 1000 mg/L

APPLICATIONS :

- Cleaning water
- Ingredient water
- Utility water

HIGHLIGHTS:

- Hygienic design on permeate side, following EHEDG hygienic design principles
- Fully automatic control
- All pipework in SS316L
- Food grade components (FDA, NSF and/ or ACS)

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Filo	CIP
40"	1

Multi-technology Products

Purified water treatment for the pharmaceutical, generics, healthcare and biotechnology markets.

ORION[™] :



MARKETS :



FLOW RATE : 500 - 20 000 L/h

TDS : Up to 1000 mg/L

APPLICATIONS:

- Purified water production
- Water for injection production

HIGHLIGHTS:

- Integrated system with diverse range of options including softening, single or twin pass RO, degassing, CEDI, UV, UF
- Fully compliant with FDA, cGMP and GAMP requirements
- Meets quality standards from US, Europe and Japan Pharmacopeias (PW, WFI)
- Validation and traceability
- Hot water sanitizable



IONPRO[™] :



MARKETS :



FLOW RATE : 500 - 1 000 L/h

TDS: Up to 1000 mg/L

APPLICATIONS :

- Industrial process water production
- Analytical water grade 2 production
- Purified water production

HIGHLIGHTS:

- Integrated system including softening, degassing and CEDI.
- Integral automatic sanitisation (AutoSan)
- Simple, reliable and compact footprint



*electronics, hospitals/healthcare, microelectronics, laboratories

Membrane Filtration

Skid-mounted system using nanofiltration for municipal applications.

ОРАМЕМ™ :



MARKETS :



FLOW RATE : 5 - 20 m³/h

TDS : Up to 1 300 mg/L

APPLICATIONS :

- Drinking water softening
- Micropollutants removal
- Nitrate removal
- Cleaning water
- Utility water

HIGHLIGHTS:

- All components certified as per french drinking water regulation (ACS)
- Membrane pressure vessels in SS316L



Associated Parts and Chemicals



FILO CARTRIDGE FILTERS :

A complete family of cartridge filters (7 different ranges) to protect RO membranes from chlorine, suspended solids, colloids and organic matter.

FILTRATION RATES : 1 - 25µm

SIZES : 10", 20", 30", 40"

VEOLIA VRO[™] MEMBRANES :

SUITABLE FOR ALL RO SYSTEMS : Fifteen models which suit the most common needs in brackish and seawater reverse osmosis.



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CIP STATION :

Clean In Place – CIP – Station for SIRION Advanced / Pro, Mega, NURION and TERION. Seven different models offering a high degree of flexibility (pump VFD, ejectors, electrical heater and semi-automatic operation)

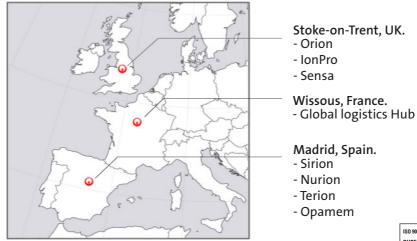
FLOW RATE : 3.6 - 96 m³/h



Veolia Solys RO products are designed to be operated with Hydrex[™] additives to get optimum performance and extended life of the membranes, both during operation and cleaning (CIP) phases.

DIAMETERS : 2.5", 4" and 8"

Our RO products manufacturing and distribution locations :





solys@veolia.com

Resourcing the world

Your local contact

Veolia Water Technologies

To find your local contacts, visit

https:/veoliawatertechnologies.com/en/about-us/multi-local-presence