

Intelligent Maximum Performance Reverse Osmosis

impro™

IMPRO™ reverse osmosis (RO) systems Aria Filtra™ have solved the limitations of conventional RO, making operation easier and more reliable, while saving significant amounts of money, water, and energy. Intelligently designed to fit in a 53-ft trailer, the IMPRO provides a maximum performance high-recovery RO system on demand to give you the water you need, when and where you need it.

If you're facing source water problems, downtime from equipment malfunctions or emergencies, seasonal surges in consumption, or increased demand that exceeds system capacity, the IMPRO can be rapidly deployed to meet your needs.

The benefits

- **Higher recovery:** Recovers up to 95% of wastewater—significantly more than conventional RO.
- **Minimum waste disposal:** Delivers the highest guaranteed recovery, reducing disposal costs compared to traditional membrane technologies.
- **Intelligent operation:** Automatically adapts to variations in feed water composition, temperature, and flow.
- **Reduced energy consumption:** Operates near thermodynamic minimum.



PERFORMANCE SPECIFICATIONS	
Capacity	700 gpm* (2 x 350 gpm); 2,650 lpm (2 x 1,325 lpm)
Water recovery	80 to 95%
Arrays	1-stage (16 x 6M), CCD operation**
Maximum pressure	Approx. 350 psi (24 bar)

*Water quality dependent
**Closed-circuit reverse osmosis (CCRO) process used with permission from Desalitech

CONTAINER DETAILS	
Type	Trailer with attached axles / wheel set
Length	53 ft (16.2 m) (plus front-mounted HVAC unit)
Height	13 ft 6 in. (4.1 m)
Width	8 ft 6 in. (2.6 m)
Weight dry / wet	47,000 lbs / 78,000 lbs (22,000 kg / 36,000 kg)

TRAILER CONNECTIONS	
Type	Grooved
Material	SS316 SCH40
Raw water inlet	8 in. (200 mm)
Permeate outlet	6 in. (150 mm)
Concentrate outlet	4 in. (100 mm)
Clean-in-place / other waste outlet	4 in. (100 mm)

SYSTEM	
Membrane	8-inch spiral wound NF or RO, application dependent
Permeate outlet pressure	<45 psig (3 bar)
Water temperature range	33-113°F (1-45°C)

SPECIAL FEATURES	
Two trains for redundancy	
Operator workstation integration into Aria FAST™ systems	
Interior temperature controlled via onboard HVAC system	

INSTRUMENTATION AND ELECTRICAL	
Service	Single 480 VAC, 3-phase, 60Hz service required, 400 FLA
Connectivity	Wireless remote Aria Filtra support and/or customer control available



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Aria Filtra, a division of Trojan Technologies, is the filtration partner of choice for municipal and industrial customers that need reliable access to consistent, high-quality water. With more than two billion gallons of installed capacity spanning six continents, Aria Filtra has the process expertise, proven technology, and intelligent systems that customers trust to reliably tackle their most complex water treatment challenges. Featuring industry-leading durability, reliability, and ease of operations, our broad portfolio of solutions ensures mission-critical functions continue to work as needed, day in, day out, for years to come. Learn more at [AriaFiltra.com](https://ariafiltra.com).

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your local representative to verify that this information remains valid.
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