

## Intelligent Maximum Performance Reverse Osmosis

impro™

IMPRO™ reverse osmosis (RO) systems from Aria Filtra™ are ideal for food and beverage producers—the largest consumers of water over any other industry. IMPRO systems solve the limitations of conventional RO, making operations easier and more reliable, while saving significant money, water, and energy. These solutions are well-suited for reducing water use and working with water sources of varying quality because of their extremely high water recovery rates and unique operational flexibility.

### Achieve Quality, Sustainability, and Cost-Savings Goals

#### Benefits

- **Higher recovery:** Packaged filtration system recovers up to 95% of wastewater—significantly more than conventional RO.
- **Minimum waste disposal:** Highest recovery reduces disposal costs compared to conventional membrane technologies.
- **Better performance:** Delivers higher reliability, requires less cleaning, and automatically adapts to variations in feedwater composition, temperature, and flow—unlike conventional RO systems, which are calibrated when built and cannot be adjusted later.
- **Reduced energy consumption:** The IMPRO batch process control continuously operates at optimal pump discharge pressures, using significantly less power than conventional RO systems.
- **Cost savings:** Drastically reduces your facility's annual water operation costs.



## PERFORMANCE SPECIFICATIONS

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

\*Water quality dependent

\*\*Closed-circuit reverse osmosis (CCRO) process used with permission from Desalitech

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

## TRAILER CONNECTIONS

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

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

Use of two trains provides redundancy

Operator workstation integrated to Aria FAST™ systems

Interior temperature controlled via onboard HVAC system

## INSTRUMENTATION AND ELECTRICAL

<b>Service</b>	Single 480 VAC, 3-phase, 60Hz service required, 400 FLA
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<b>Connectivity</b>	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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