



## Pall IMPRO™: Intelligent Maximum Performance Reverse Osmosis

The word "impro" in a lowercase, orange, sans-serif font with a trademark symbol.

Pall Water's new **IMPRO™ Reverse Osmosis (RO) systems** have solved the limitations of traditional RO, making operation easier and more reliable, while saving significant amounts of money, water and energy. Intelligently designed to fit in a 53' 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.



When 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:** Packaged filtration system recovers up to 95% of wastewater, significantly more than conventional RO
- **Minimum Waste Disposal:** Highest guaranteed recovery reduces 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

<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

## CONTAINER DETAILS

<b>Type</b>	Trailer with attached axles/ wheel set
<b>Length</b>	53 – 0' (16.2 m) (plus front-mounted HVAC unit)
<b>Height</b>	13 – 6' (4.1 m)
<b>Width</b>	8 – 6' (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>CIP/Other Waste Outlet</b>	4 in (100 mm)

## SYSTEM

<b>Membrane</b>	8 inch spiral wound NF or RO – application dependent
<b>Permeate Outlet Pressure</b>	< 45 psig (3 bar)
<b>Water Temp Range</b>	33 to 113 deg F (1 to 45 deg C)

## SPECIAL FEATURES

**Two trains provides redundancy**

**Operator Work Station integrated to Aria™ FAST Systems**

**Interior temperature controlled via on-board HVAC system**

## INSTRUMENTATION AND ELECTRICAL

<b>Service</b>	Single 480 VAC, 3 phase, 60Hz service required, 400 FLA
<b>Connectivity</b>	Wireless remote Pall support and/or customer control available



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