



Technical Data Sheet: Pall IMPRO: Intelligent Maximum Performance Reverse Osmosis

Pall's new IMPRO has 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.

Benefits of the IMPRO include:

- **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

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 Desalination (CCD) process used with permission from Desalitech

Container Details

Type	Trailer with attached axles / wheel set
Length	53-0' (16.2 m) (plus front-mounted HVAC unit)
Height	13-6' (4.1 m)
Width	8-6' (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)
CIP/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 Temp Range	33 °F (1 °C) to 113 °F (45 °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

Service	Single 480 VAC, 3 phase, 60Hz service required, 400 FLA
Connectivity	Wireless Remote Pall Support and/or Customer Control Available



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