

Introduction

Our Industrial RO Systems are designed to provide efficient, reliable, and consistent water purification for a wide range of industrial and commercial applications. Using advanced Reverse Osmosis (RO) membrane technology, the system reduces dissolved salts, hardness, suspended impurities, organic contaminants, and other unwanted substances from feed water.

The systems are engineered for continuous operation, high water recovery, low operating costs, and easy maintenance. Depending on feed-water characteristics and application requirements, the RO plant can be customized with suitable pretreatment, membrane configuration, instrumentation, automation, and storage facilities.



Features

- High-quality purified water output
- Effective reduction of TDS and dissolved salts
- Designed for continuous operation
- High membrane performance and reliability
- Easy operation and monitoring
- Customized according to feed-water quality

Standard Capacity Range

Capacity: 100 LPH to 50,000 LPH

Configuration: Single-pass / Double-pass, as required

Operation: Automatic / Semi-Automatic / Manual

System Design: Customized according to feed-water analysis

Specification

System Type	Industrial Reverse Osmosis System
Capacity Range	100–50,000 LPH
RO Technology	Thin Film Composite (TFC) Membranes
Membrane Configuration	As per capacity and feed-water quality
Membrane Housing	FRP / SS / PVC, as applicable
High Pressure Pump	SS / suitable industrial construction
Pump Type	Multistage High Pressure Pump
Pretreatment	As required by feed-water quality
Micron Filtration	5 Micron / As Required
Operating Pressure	Typically 8–20 bar, depending on feed water and membrane selection
Recovery	Typically 40–80%, depending on feed-water quality and design
TDS Reduction	Typically up to 95–99% for suitable feed water
Control Panel	Automatic / Semi-Automatic
Instruments	Pressure Gauge, Flow Meter, Conductivity/TDS Meter and required sensors
Piping	UPVC / CPVC / SS / Suitable Material
Skid / Frame	MS Powder Coated / SS, as required
Electrical Supply	As per system capacity and site requirement
Safety Features	Low/High Pressure Protection and Pump Protection
Cleaning System	CIP Provision / CIP System as required
Installation	Customized according to site conditions

Note: Actual operating pressure, recovery, membrane quantity, pump capacity, TDS rejection and production capacity depend on feed-water analysis, temperature, membrane selection and site conditions.

Capacity and Application Range

Capacity	Suitable Application
100–500 LPH	Laboratories, Small Industries, Hotels, Offices, Commercial Use
500–2,000 LPH	Hotels, Hospitals, Schools, Small Manufacturing Units
2,000–5,000 LPH	Food Processing, Textile, Pharmaceutical, Manufacturing
5,000–10,000 LPH	Industrial Process Water, Boiler Feed, Textile, Chemical Industries
10,000–25,000 LPH	Large Manufacturing Plants, Food & Beverage, Textile, Pharmaceutical
25,000–50,000 LPH	Large Industrial Plants, Process Industries, Utilities & Water Treatment Plants

Note: We make sure that our offered chemical is formulated in a hygienic environment.