

# Industrial Water Purification Systems

Engineered for Purity.  
Designed for Performance.



Spring Ion Exchange is a leading water and wastewater treatment engineering company specializing in turnkey Industrial RO, S.S. RO, and Ultrafiltration systems.



**Advanced RO & Ultrafiltration Solutions for Industrial Excellence**

## Our Strength

- Custom-built engineering
- Energy-efficient design
- Long operational life
- PLC & SCADA automation ready
- Nationwide & international execution

## Contact Info

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# Precision Manufacturing Facility



With 18+ years of expertise, we design, manufacture, install, and commission high-performance treatment plants for industrial, commercial, and municipal sectors.



Call Now: +91 9925966011

71, Nakshatra Industrial Estate, Gatrad-Bakrol, Ahm, Gujarat - 382430



# Industrial Reverse Osmosis (RO) Systems

- Recovery rate: 75–85%
- PLC & SCADA automation with HMI interface
- Conductivity <math><10 \mu\text{S}/\text{cm}</math> achievable
- Anti-scalant & chemical dosing automation
- Skid-mounted MS epoxy-coated or SS304/SS316 structure
- FRP / SS membrane pressure vessels
- Thin Film Composite (TFC) high rejection membranes (99–99.5%)



## Industrial RO Plant

Spring Ion Exchange designs and manufactures high-performance Industrial RO systems engineered for consistent removal of dissolved solids (TDS), hardness, heavy metals, organics, and dissolved contaminants. Our systems deliver process-grade and high-purity water suitable for critical industrial applications.

[www.springionexchange.com](http://www.springionexchange.com)



**50**  
To  
**50,000+ LPH**  
(Custom-built up to 1 MLD and above)



## Applications

Pharmaceutical | Food & Beverage | Textile | Power Plants | Boiler Feed | Cooling Towers | Electronics | Ceramic | Chemical Industries

Our Industrial RO systems are designed after detailed raw water analysis, ensuring maximum membrane life, optimal recovery, and minimal operational cost.

## STAINLESS STEEL (S.S.) INDUSTRIAL RO SYSTEMS

Spring Ion Exchange manufactures complete Stainless Steel RO Plants fabricated in SS304 and SS316 for pharmaceutical, mineral water, and hygienic process industries.

Unlike conventional FRP systems, our full stainless-steel construction eliminates corrosion risks, prevents bacterial growth, and ensures long-term structural integrity even in high TDS environments.



### Hygienic. Corrosion-Free. Long-Life Engineering.

- Full SS304 / SS316 skid structure
- 99% salt rejection
- Food-grade SS piping & fittings
- Recovery 75–85%
- SS high-pressure pump base frame
- Low fouling design
- SS control panel enclosure
- Mirror / Matte pharmaceutical finish
- Sanitary welding & GMP-compliant fabrication

### 500 LPH to 100,000+ LPH

#### Ideal Applications



Packaged Drinking Water Plants



Pharma Manufacturing Units



Food Processing Facilities



Dairy & Beverage Plants



High-Purity Water Applications

# ULTRAFILTRATION SYSTEMS



## Capacity Range

1 m<sup>3</sup>/hr to 200+ m<sup>3</sup>/hr

## Performance Benefits

- 99.9% microbial removal
- Stable output water quality
- Reduced RO membrane fouling
- Lower chemical consumption
- Long membrane life

Spring Ion Exchange Ultrafiltration Systems utilize hollow fiber PVDF membranes with pore sizes ranging from 0.01–0.1 micron to remove:

- Suspended solids
- Turbidity
- Bacteria
- Viruses
- Colloidal particles

## TECHNICAL HIGHLIGHTS

- PVDF / PES HOLLOW FIBER MEMBRANES
- AUTOMATIC BACKWASH & AIR SCOURING
- FORWARD FLUSH & CHEMICAL CLEANING OPTION
- LOW OPERATING PRESSURE
- RECOVERY RATE: 90–95%
- STAINLESS STEEL / FRP PRESSURE VESSELS
- PLC CONTROLLED AUTOMATIC OPERATION
- CROSS-FLOW & DEAD-END FILTRATION DESIGN



“

Fresh Thinking In  
Every Drop

At Spring Ion Exchange, we do not merely supply equipment we engineer complete water management solutions.

**100,000+**

Litres Treated Daily

**22+**

Indian States Served

**7+**

Service Offices

**35+**

Industry Support

## ABOUT US

With over 18 years of technical expertise, Spring Ion Exchange delivers fully engineered, high-performance water treatment solutions tailored through detailed raw water analysis and precision system design. Our in-house engineering and fabrication capabilities, including premium SS304 and SS316 construction, ensure durability, hygiene, and long-term reliability.

Under the visionary leadership of **Founder & CEO Rakesh Rawal and Director & Head of Operations Divyansh Raval**, every project is executed with deep technical expertise from hydraulic design and membrane engineering to P&ID development, fabrication, and final commissioning ensuring dependable performance for years.

**ENGINEERING EXCELLENCE.  
PROVEN PERFORMANCE.  
TRUSTED NATIONWIDE.**

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