

SCALERX INDIA LLP

Scalerx UV – Advanced Ultraviolet Disinfection Systems
Engineering Purity. Empowering Tomorrow.
Infusion. Oxidation. Treatment. One Scalerx India Solution.



The Scalerx UV Advantage

Scalerx UV Represents The Next Generation Of Ultraviolet Disinfection Technology Engineered For Advanced Water Purification, Reuse, Safety, And Biosecurity Across All Industries:

STP ■ ETP ■ RO ■ Process Water ■ Aquaculture ■ Food & Beverage ■ Pharma ■ Municipal Systems

What Problems Scalerx UV Solves

- Failure To Meet CPCB Discharge Norms
- High Bacterial Contamination In RO Permeate & Process Water
- Frequent Vibrio Outbreaks And Mortality In Aquaculture
- Biofouling In Water Lines And RO Membranes
- Heavy Chemical Consumption For Disinfection
- Existing Uv Systems Failing Under Low UVT Or Fouling Conditions

Our Engineering Pillars

- Precision Engineering:**
Optimized UV Chambers, High-output Lamps, Advanced Fluid Dynamics
- Consistent Performance:**
Auto-wiper Cleaning, UV Intensity Monitoring, Lamp-failure Protection
- Verified Results:**
Proven >99.99% Pathogen Removal Under Real Site Conditions
Scalerx UV Ensures Safe, Compliant, Reusable Water While Significantly Reducing Operating Cost And Chemical Dependency.

UV-RO Series

Flow Range: 500 LPH to 20 m³/hr

Auto-Wiper: Optional

Application: RO permeate polishing, drinking/process water

Key Highlights:

- Compact, high-efficiency chamber
- 30–40 mJ/cm² UV dose
- Compatible with 90–95% UVT
- Ideal for food, pharma, beverages, electronics, and drinking water



UV-STP Series

Flow Range: 1 m³/hr to 500 m³/hr

Auto-Wiper: Standard

Application: Tertiary treated sewage disinfection

Key Highlights:

- Modular high-flow design
- 40–60 mJ/cm² disinfection range
- Achieves **>4-log coliform reduction**
- Ensures CPCB-compliant reuse water



UV-ETP Series

Flow Range: 1 m³/hr to 300 m³/hr

Auto-Wiper: Standard

Application: Industrial effluent polishing & ZLD

Key Highlights:

- Designed for low UVT: 40–55%
- High dose: 60–80 mJ/cm²
- Supports AOP systems (color, COD reduction)

UV-Aqua Series (Aquaculture / RAS)

Flow Range: 500 LPH to 150 m³/hr

Auto-Wiper: Optional for RAS, recommended for pond intake

Key Highlights:

- UVT compatibility: 50%–92%
- Dose: 25–35 mJ/cm² (bacteria), up to 60 mJ/cm² (virus)
- Controls **Vibrio**, improves survival rates
- Suitable for shrimp/fish hatcheries, nurseries & RAS



UV-Box / Pharma UV Series

- Box-type robust design
- Suitable for batch and continuous sterilization
- Designed for high-intensity microbial control



Open-Channel UV Series

- Modular banks for municipal outfalls
- Low head-loss design
- Capacity: 1–50 MLD and above

Industries Served

- ↳ Municipal STP / Wastewater
- ↳ Industrial ETP & ZLD
- ↳ RO / Process Water Systems
- ↳ Food & Beverage
- ↳ Pharma & Healthcare
- ↳ Aquaculture / RAS / Hatcheries
- ↳ Hospitality & Institutions

Key Applications

- ↳ Bacterial & Viral Disinfection
- ↳ Tertiary Treatment For Reuse
- ↳ RO Permeate Polishing
- ↳ Industrial Effluent Polishing
- ↳ Aquaculture Biosecurity
- ↳ Open-channel Disinfection
- ↳ Product/surface Sterilization (Pharma UV Box)

Proven Field Performance

- ↳ >99.99% Microbial Inactivation
- ↳ >4-log Coliform Reduction In STP
- ↳ >3-log Pathogen Reduction In ETP
- ↳ >3-log Bacterial Reduction In RO Permeate
- ↳ >99.9% Vibrio Reduction In Aquaculture Systems

Core Technical Features

- ↳ High-Output UV-C Lamps (254 nm)
- ↳ Auto-Wiper Cleaning System
- ↳ UV Intensity Monitoring
- ↳ SS316 / Duplex Steel Chamber
- ↳ Hydraulically Optimized Reactor Geometry
- ↳ Chemical-Free Disinfection
- ↳ Lamp Failure & Dose Assurance Alarms
- ↳ Energy-Efficient Electronic Ballasts
- ↳ Food-Grade Quartz Sleeves
- ↳ Built-in Safety Interlocks
- ↳ Full PLC/SCADA Support (Modbus/RS485)
- ↳ Easy-access service ports

Installations Across India

Scalerx UV Systems Are Deployed Across:
Maharashtra ▪ Gujarat ▪ Karnataka ▪ Telangana
▪ Tamil Nadu ▪ Goa ▪ Madhya Pradesh ▪ Northern India
Serving: Industries
▪ STPs ▪ Aquaculture farms ▪ Institutes ▪ Commercial complexes
(Client names not disclosed as per corporate policy.)

TECHNICAL EXCELLENCE

Performance Engineered for All Water Types

Application	Typical UVT	Recommended Dose	Expected Log Reduction
RO / Drinking Water	90–95%	30–40 mJ/cm ²	3-log bacteria
STP Tertiary Water	50–70%	40–60 mJ/cm ²	4-log coliform
Industrial ETP	40–55%	60–80 mJ/cm ²	3-log pathogens
Aquaculture / RAS	50–92%	25–35 mJ/cm ² (bacteria), 60 mJ/cm ² (virus)	99.9% Vibrio

Why Scalerx UV Leads the Market

- Stable Uv Dose Even Under Fluctuating UVT
- Longest Lamp Life & Low O&M Cost
- Advanced Auto-wiper Ensures Consistent Output
- Designed Specifically For Indian Water Conditions
- Trusted By Industries, Municipalities, And Hatcheries
- Backed By End-to-end Technical Support



Packaging Drinking Water



Beverages



Pharmaceutical Prosses Water



Waste Water Treatment Plant (etp /stp)



Swimming Pool



Aquaculture



Agriculture



Food Processing

Contact Us

M/S Scalerx India LLP

☛ +91 7887890017 / +91 7499784076 / +91 87675 42995

✉ scalerindia@gmail.com / mktgsie@gmail.com

⌚ Ground Floor S. No. 86/2a, Shed No. 01, Bhange Plot, Jambhulwadi Lake Katraj, Pune, Maharashtra -411046