

SCALERX INDIA LLP

Scalerx – Advanced Air Infusion System
Nano Air. Mega Performance.
SCALERX INDIA LLP — Engineering Purity. Empowering Tomorrow.



What is Scalerx

Scalerx Is Scalerx India's Advanced Air-liquid Infusion And Mixing System Engineered To Generate Nano And Micro Bubbles For Enhanced Aeration, Oxidation, And Gas Transfer. It Integrates Seamlessly Into AOP, DAF, STP, ETP, RO, And Industrial Oxidation Processes, Providing Exceptional Gas Dissolution And Reaction Efficiency.

Core Technology Highlights

- 🌿 **Nano Air Infusion:** Bubble size <200 nm for **maximum surface area & gas-liquid contact**
- 🌿 **High Shear Reaction Zone:** Accelerates reactions **5× faster than conventional systems**
- 🌿 **Zero Choke Self-Cleaning Design:** Continuous operation with **minimal maintenance**
- 🌿 **Industrial-Grade Stainless Steel (SS 304 / 316):** Durable and corrosion-resistant
- 🌿 **Energy-Optimized:** **0.1–0.15 kWh per m³** water treated

Key Advantages (Numerical Performance) Applications

Ozone Utilization: Up to **90%** in AOP systems

Oxidation Efficiency: **5× faster** than standard injectors

DAF Improvement: **25–30% higher** sludge separation

Oxygen Transfer Rate (OTR): **8–12 mg/L/hr** in biological systems

Compact Footprint: **0.5–1 m²** per module

Maintenance-Free Operation: **>12 months** continuous use

- 🌿 Industrial & Municipal Wastewater Treatment
- 🌿 Advanced Oxidation Processes (AOP)
- 🌿 Dissolved Air Flotation (DAF)
- 🌿 Ozone Dissolution Systems
- 🌿 Aeration & Gas Mixing in Reactors
- 🌿 Swimming Pools and Artificial Lakes
- 🌿 Food & Beverage Water Purification

Technical Models

| Model | Recommended Water Flow (m³/hr) | Nominal Air Infusion (Nm³/hr / LPM) | Air : Liquid Ratio (typ.) | Application |
|-------------|--------------------------------|-------------------------------------|---------------------------|---|
| Scaler X-1 | 1 – 2 | 0.06 / 1 | 1.3 | Pilot, Lab & Small Recycle Systems |
| Scaler X-2 | 3 – 5 | 0.12 / 2 | 1.4 | Medium STP / ETP Units |
| Scaler X-3 | 6 – 10 | 0.24 / 4 | 1.45 | Compact DAF / AOP Plants |
| Scaler X-5 | 10 – 15 | 0.36 / 6 | 1.5 | Industrial AOP + DAF Systems |
| Scaler X-10 | 20 – 30 | 0.72 / 12 | 1.5 | Centralized Treatment Systems |
| Scaler X-15 | 30 – 50 | 1.08 / 18 | 1.6 | Large Flow Systems / Industrial Aeration |
| ScalerX -20 | 50 – 60 | 1.44 / 24 | 1.7 | Mid-High Capacity Industrial / Modular AOP + DAF Units |
| Scaler X-30 | 60 – 100 | 2.16 / 36 | 1.8 | High-Capacity Industrial Plants / AOP Modules / Central DAF Units |

Why Choose Scalerx

- 🌿 Designed & Manufactured in India
- 🌿 Proven Technology for AOP & DAF
- 🌿 High Durability for Continuous Operation
- 🌿 Ready for Export & OEM Integration

About Scalerx India LLP

Scalerx India is an innovation-driven company specializing in water & air treatment technologies, delivering reliable, energy-efficient, and sustainable solutions for industrial, municipal, and environmental applications.

Contact Us

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