

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 (m ³ /hr)	Nominal Air Infusion (Nm ³ /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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