



QUICKCLR

An Advance Treatment Platform Engineered
for Varied and Complex Industrial Effluents

Conserving Resources, Preserving the Future.

Treating Waste. Protecting Tomorrow.

QuickCLR represent years of Thermax expertise in R&D and operational excellence, offering a robust, flexible platform for treating diverse and complex industrial effluents. Engineered for seamless installation and commissioning, it delivers customisable, scalable solutions that balance efficiency with performance. Its modular design serves as a future-ready baseline, allowing unit processes to be added or optimised according to effluent characteristics, ensuring superior adaptability across industries while maintaining compliance with stringent discharge norms.

Why Standardise Effluent Treatment?



Cost-Effective

Modular, pre-engineered designs lower engineering effort and construction costs.



Versatile Across Industries

QuickCLR serves food-processing, agro-based, dairy, textile, chemical, and pharma effluents with suitable pre-treatment.



Digitally-enabled Operations

Standardisation supports predictive maintenance, optimised performance, and higher reliability.



Quick Deployment

Standard capacities speed up design, approvals, and installation.



Better Monitoring & Compliance

Easy integration with online systems enables remote tracking of BOD, COD, TSS, and pH for regulatory adherence.



Easy Upgrades

Standard configurations simplify future technology enhancements.

What is QuickCLR?

QuickCLR is an advanced family of Effluent Treatment Plants (ETPs) designed with flexible combinations of unit operations to deliver highly efficient treatment for a wide spectrum of industrial effluents, from easily biodegradable streams to complex, hard-to-treat wastewater. Each configuration is engineered to optimise process performance and ensure compliance with stringent discharge norms.

QuickCLR integrates best-in-class treatment technologies to deliver high-efficiency effluent treatment across a wide range of industrial applications. **At its core is a next-generation Bio-Media with up to 10× higher specific surface area compared to conventional MBBR media, enabling superior biological degradation and improved process stability.** This is complemented by PureCODE™ molecular filtration, ensuring effective removal of recalcitrant COD and colour, even in challenging effluent streams.

For applications demanding the highest treated water quality, **QuickCLR-MBR integrates advanced Membrane Bioreactor (MBR) technology** to achieve exceptional solids separation and consistent effluent quality. This makes it ideal for **water recycling and Zero Liquid Discharge (ZLD) applications**, where reliability and compliance are critical.

QuickCLR-ST, based on advanced **Sequential Batch Reactor (SBR) technology**, offers precise control over biological treatment cycles. It is particularly effective for effluents with variable and fluctuating loads, while also supporting anoxic treatment for nutrient removal, ensuring stable performance under dynamic operating conditions.

Ideal Effluent Characteristics

QuickCLR delivers its highest performance when treating effluents with the following characteristics

Stable and Predictable Composition

Ensures consistent biological and chemical process behavior.

High Biological Treatability

Ideal for streams where organic loads can be efficiently degraded using advanced biological systems.

Low Toxicity and Minimal Variability

Reduces process stress and enhances long-term system stability.

Common Across Developing Industrial Regions

Perfectly suited for rapidly growing industrial clusters with evolving but moderate effluent loads.

Strong Reuse Potential

Treated water is suitable for applications such as gardening, flushing, floor washing, and other non-potable uses.

The QuickCLR Advantage

- ▶ QuickCLR offers a standardised yet **adaptable platform** for diverse effluent types.
- ▶ **Modular design and streamlined approvals** enable faster deployment.
- ▶ **Pre-validated processes** ensure smooth regulatory compliance.
- ▶ **Energy-efficient, scalable modules** reduce total cost of ownership.
- ▶ Standard components and uniform protocols **simplify operations and maintenance**.
- ▶ Fully **compatible with SCADA** and online monitoring.
- ▶ Acoustically **optimised systems** ensure low-noise, operator-friendly operation (<75dB).
- ▶ Advanced **Bio media** allow compact, space-efficient plant layouts.
- ▶ **Efficient aeration, reduced chemical demand, and intelligent controls** lower operational costs.
- ▶ **Precision-engineered** biological and membrane systems deliver consistent effluent quality.
- ▶ Integrated **advanced oxidation and optimised biological pathways** treat hard-to-break COD effectively.



QuickCLR Capacity

QuickCLR is available in both civil-based and modular formats, enabling flexibility for new installations or expansion projects.

QuickCLR – CVe (Civil ETP)

Available capacities:
50 KLD 100 KLD 150 KLD
200 KLD 300 KLD
400 KLD 500 KLD

QuickCLR – MODE (Modular ETP)

Available capacities:
30 KLD 50 KLD 100 KLD



Inlet Parameters

Parameters	Value	Unit
pH	6.5-8.5	
COD	3000	ppm
BOD	1500	ppm
TDS	1500	ppm
TSS	<400	ppm
O&G	Nil	
Temperature	30	Deg C

Outlet Parameters

Parameters	Value	Unit
pH	6.5-8.5	
COD	<100	ppm
BOD	<30	ppm
TDS	<2100	ppm
TSS	<30	ppm

Conserving Resources,
Preserving the Future.



Air Pollution
Control



Boiler and
Heater



Build-Own
-Operate



Chemical



Cooling



Projects and
Energy
Solutions



Process
Heating



Renewable
Energy



Water and Waste
Solutions

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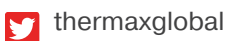
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