

SPECIFICATION & BENEFITS GUIDE
FOR ARCHITECTS & SPECIFIERS

Kalyxx RedLine

Swiss-engineered limescale protection you specify once
— invisible, inline, and maintenance-free for over a
decade.

76%

CERTIFIED SCALE
REDUCTION

TGP®

ION POLARIZATION
SYSTEM

10+ yrs

MAINTENANCE-
FREE



EIMEX

EXCLUSIVE DISTRIBUTOR · PAKISTAN

SWISS AQUA TECHNOLOGIES
MADE IN SWITZERLAND

THE TECHNOLOGY

Limescale, solved at the molecular level.

Hard water carries dissolved calcium and magnesium. When it heats or stands, these minerals crystallise as **calcite** — the hard, bonding scale that clogs pipes, coats heating elements, and etches glass and chrome. RedLine stops that bonding **without removing anything from the water.**

HOW TGP® WORKS

As water flows through the unit it passes across electrodes made of two dissimilar metals. This drives a passive **galvanic reaction** — Turbulent Galvanic Polarization — that polarizes the mineral ions and seeds micro-crystals. Scale-forming calcite is converted into **aragonite**: a soft, non-adhesive crystal that stays suspended in the water and simply rinses away instead of bonding to surfaces.

No salt. No chemicals. No electricity.

The minerals stay in your water — RedLine changes their **form**, not their presence. That is why it is **not a water softener**: total dissolved solids (TDS) are unchanged, and the water keeps its natural mineral content and taste.

PART OF THE IPS RANGE

RedLine belongs to Swiss Aqua Technologies' **Ion Polarization System (IPS)** family of scale-control devices. Its performance is independently verified at **up to 76% limescale reduction** — NRL-certified and IAPMO-confirmed — with a passive design engineered to run untouched for 10+ years.

WHY SPECIFY IT

What RedLine does for your practice.

01 Protects your design intent

The fixtures, glass screens, tiles and finishes you specify keep looking as intended — no scale bloom on chrome, no etched shower glass, no white crust on sanitaryware.

02 Zero maintenance liability

No cartridges, no salt, no servicing schedule. Once installed it runs untouched for over a decade — nothing about your specification generates callbacks or consumable costs for the client.

03 Invisible integration

A compact inline unit on the incoming supply. It sits neatly in utility risers, plant rooms and tight service voids — it protects the building without dictating the design.

04 Specify with evidence

Documented, independent Swiss test data (76% reduction, NRL-certified, IAPMO-confirmed) lets you justify the specification to clients and consultants with confidence.

05 Whole-building protection from one point

A single installation on the main supply protects every downstream fixture, appliance and pipe run — geysers, boilers, mixers, valves and heat exchangers alike.

06 Premium, sustainable value

A salt-free, chemical-free, low-lifetime-cost solution that supports healthier, more efficient buildings and adds a genuine specification advantage.

FOR THE END-CLIENT

What your client lives with **every day.**

01 Cleaner kitchens & bathrooms

Dramatically less limescale on taps, glass, tiles and screens. Surfaces wipe clean and stay clear, so premium finishes keep looking new.

02 Lower bills, longer-lasting appliances

Scale is the silent killer of geysers, boilers and heating elements. Preventing build-up keeps them running efficiently and extends their working life.

03 Steady flow and pressure

Pipes, mixers and shower heads stay free of the scale narrowing that slowly chokes flow over the years.

04 Nothing to buy, refill or maintain

No salt bags to carry, no filter cartridges to replace, no service visits to schedule. Install and forget.

05 Water that's still water

Minerals stay in, taste is unchanged, and it never feels slippery like softened water. Healthy, natural water — just without the scale problem.

06 Peace of mind

A Swiss-engineered device, warrantied and supported locally by Eimex, working quietly in the background for 10+ years.

TECHNICAL DATA

Specifications & installation.

Technology	TGP® — Turbulent Galvanic Polarization (IPS range)
Scale reduction	Up to 76% — independently certified
Certifications	NRL-certified · IAPMO-confirmed
Connection	¾" BSP (other sizes available on request)
Media / consumables	None
Power supply	None required (fully passive)
Maintenance	Maintenance-free
Service life	10+ years
Effect on minerals / TDS	Unchanged — minerals retained in water
Installation	Inline on the cold main / point of entry

INSTALLATION NOTE

Fit horizontally or vertically on the incoming supply, after the main stopcock and upstream of the fixtures and appliances to be protected. No power, drain or backwash connection is required.

COMPARISON

RedLine vs. a salt softener.

Both address hard water, but they work in fundamentally different ways. RedLine **conditions** scale so it no longer bonds — a softener **removes** the minerals entirely. For most residential and commercial specifications, the passive, maintenance-free approach is the easier one to live with.

	KalyxX RedLine (TGP®)	Salt-based softener
Removes minerals?	No — minerals retained	Yes — hardness ions stripped
Salt required	None	Yes — ongoing refills
Electricity	None	Often required
Wastewater / regeneration	None	Yes — periodic flushing
Maintenance	Maintenance-free	Regular refills & servicing
Water taste / feel	Natural, unchanged	Softened / slippery
Action on scale	Converts calcite to non-bonding aragonite	Removes hardness ions
Lifetime cost	Low — one-time	Ongoing

The specification takeaway

RedLine delivers scale protection **without** the salt storage, drainage, power and servicing a softener demands — and without changing the water your client drinks.

ASSURANCE

Certified, warrantied, locally supported.

CERTIFICATION

RedLine's **76% limescale reduction** is independently verified — **NRL-certified** and **IAPMO-confirmed** — and the device is engineered by **Swiss Aqua Technologies** in Switzerland.

THE WIDER IPS RANGE

RedLine sits within SAT's Ion Polarization System family. Where projects need supplementary bacterial control, the **BlueLine** variant adds silver electrodes for an additional reduction in bacteria (around 40% E. coli), using the same passive, maintenance-free TGP® platform.

WARRANTY & SUPPORT

Warranty and after-sales support are handled locally by **Eimex**, with live installations already running across Pakistan and a nationwide service presence.

ABOUT EIMEX

Established in **1998**, Eimex is a water and energy solutions company with **8,500+ installations** nationwide and the **exclusive Pakistan distributor** for Swiss Aqua Technologies. Offices across Islamabad, Rawalpindi, Lahore, Karachi, Peshawar, Quetta, D.I. Khan and Gilgit.

Specify **RedLine** on your next project.

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