

AquaMagna™ is a patented magnetic water conditioner that prevents and reduces scale buildup in commercial and industrial water systems — no chemicals, no salt, and no moving parts. Clamped externally onto the pipe, AquaMagna™ uses rare-earth magnets to create a calibrated magnetic field that changes how dissolved minerals behave as water flows through it.

Ideal for boilers, cooling towers, hot water systems, and multi-residential plumbing, AquaMagna™ installs with no system modification, no downtime, and no ongoing servicing — delivering long-term reductions in scale-related energy loss, maintenance, and chemical use.

Key Value Drivers

FINANCIAL IMPACT

Up to 30% reduction in energy use for water heating and 100% elimination of chemical softeners & descalers, with typical ROI of 12-24 months. No capital-intensive upgrades, tanks, or resin to replace.

OPERATIONAL BENEFITS

Prevents new scale from forming and gradually helps dissolve existing buildup, reducing fouling in heat exchangers, boilers, and cooling equipment. Typically 50-70% fewer maintenance calls for scale buildup.

ESG & SUSTAINABILITY

Eliminates ongoing chemical softener and descaler use and the handling, storage, and disposal they require. Solid-state design with no moving parts supports long-term sustainability targets.

How It Works

AquaMagna™ uses rare-earth magnets to create a calibrated magnetic field. As water flows through this field:

- 1 Minerals stay dissolved**
Calcium and magnesium stay dissolved in the water rather than crystallizing as scale.
- 2 Existing scale dissolves**
Built-up scale begins to break down over time, restoring system efficiency.
- 3 Solids form clusters**
Suspended solids form clusters, allowing filters to capture more contaminants.

Typical Performance

30%

Up to 30% reduction in energy use for water heating

50-70%

Fewer maintenance calls for scale buildup

100%

Elimination of chemical softeners & descalers

12-24

Months to full return on investment

Field validation program: these figures reflect typical results published for calibrated magnetic water-conditioning technology of this type. Magna-Tek is actively collecting site-specific before/after data — energy use, maintenance call frequency, and chemical consumption — across AquaMagna™ installations, following the same methodology used to validate Eco-Clamp™ performance.

Implementation & Risk Profile

Simple, Non-Invasive Installation

- Installed externally on existing pipework — no cutting, welding, or plumbing modifications required.
- Zero downtime: installation completed without disrupting water service.
- Fully reversible: no permanent changes to existing infrastructure.

Low-Risk Profile

- No contact with water — no effect on water chemistry, pressure, or flow rate.
- No moving parts or maintenance — solid-state design with a long, uninterrupted service life (20-year warranty).
- No power, salt, or chemical refills required — works continuously from installation day.

For installation procedures, sizing, and full technical specifications, see the AquaMagna™ Technical Specifications document. Magna-Tek Solutions Inc. · info@magna-tek.com · www.magna-tek.com