

Protect your pipes and
add value to your home



What Can You Do About Below-Slab Plumbing Leaks?



Model CP-350 Modular Rectifier

A breakthrough in corrosion technology makes this cathodic protection system available for single family residential properties.

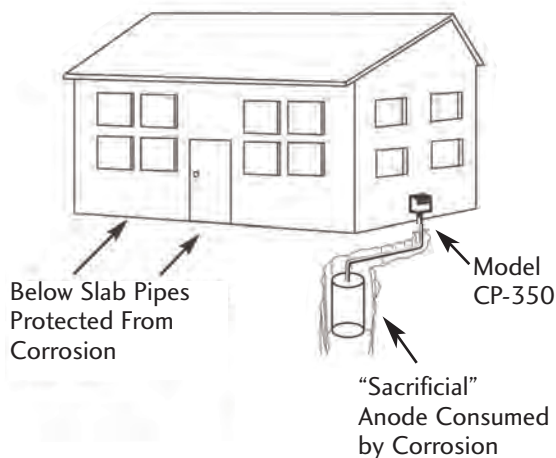


Figure 1-Typical Installation

The Problem

Below-slab plumbing leaks (slab leaks) caused by soil-related corrosion affect many residential properties. Below-slab leaks are expensive to repair, disruptive, cause moisture damage, and are a major cause of mold-related repair work.

Practical, Low Cost & No Disruption

Cathodic protection is an established method for preventing corrosion. As a preventive measure, or if you have already experienced below-slab plumbing leaks caused by soil-related corrosion, cathodic protection can significantly reduce or eliminate further leak problems. The system is easy to install with little or no disruption to residents, see Figure 1.

Add Value to Your Home – Why Delay?

In most cases the prevention of one below-slab leak will cover the cost of an installed system. Backed by over twenty years of experience, our systems have added value to residential properties as a proven proactive maintenance effort.

Compatible with other Options

Are you considering repiping or epoxy coatings? You can protect your existing piping now with our system, benefit from the results, and keep your options open. If you are considering epoxy coatings, cathodic protection will complement the internal coating by protecting the external surfaces of the buried piping (the substrate that the coating is bonded to) from further corrosion damage.

Effective Alternative – It's about Time

The cathodic protection method is so effective at preventing leaks that the Federal Government has made it required by law for all buried gas and oil pipelines. Why shouldn't it be required for below-slab water piping? Talk to your insurance company about a potential discount on your home protection policy.

Cathodic Protection is the practical choice to address existing or potential below-slab leak problems

How It Works

Cathodic protection is a basic reversal of the corrosion process. When applied to below-slab piping the corrosion tendencies are transferred from the piping to a “sacrificial” metal that is consumed instead. See Typical Installation Figure 1 on opposite page.

The sacrificial anode in all hot water heaters is just one example of the everyday use of cathodic protection, see Figure 2. As long as the anode is intact, the steel hot water tank does not corrode (the only difference between a hot water heater with a 5-year warranty and a 10-year warranty is the weight of the anode). In a similar manner, the CP-350 has been designed to protect the soil-side of below-slab copper piping from ongoing corrosion for approximately ten years.

For a more scientific description of the process please see our website at www.leakcontrolsystems.com.

Results

For buildings with prior leak histories, the cathodic protection process results in a dramatic decrease in leak frequency. Actual case histories have shown the leak frequency of soil-related corrosion problems rapidly approaching zero, see Figure 3. As a preventive measure cathodic protection can save owners from the major headaches caused by future ongoing leak problems.

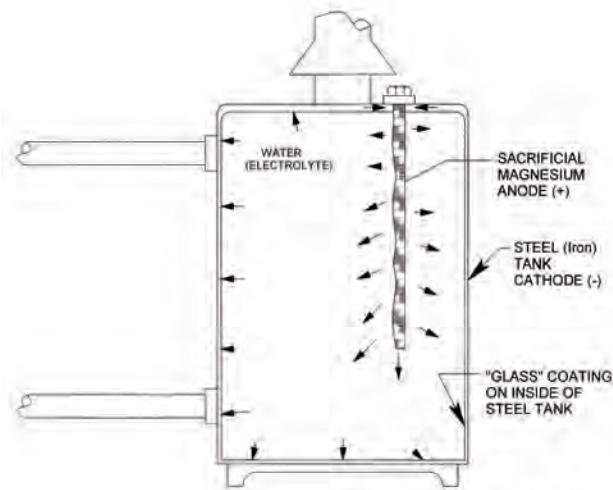


Figure 2 - Example of everyday use of cathodic protection in a hot water heater

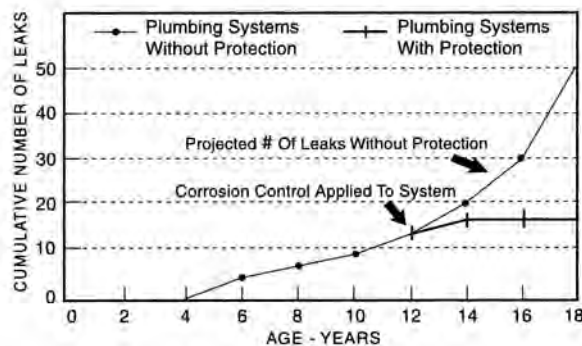


Figure 3 - Expected results of corrosion control

Provided by:

Architect's Specifications - Cathodic Protection

Cathodic Protection System: Model CP-350 and associated anode bed, as manufactured by Leak Control Systems, Inc (LCS). A cathodic protection system designed for use on residential properties to address external corrosion of piping buried below the concrete slab.

One CP-350 system shall be required for each average size single-family home, unless otherwise determined by an experienced installer. CP-350 shall be installed at a location specified by an experienced installer. Location and quantity of anodes for each CP-350 shall be determined by an experienced installer. System shall be designed to have a minimum life expectancy of ten years.

The term “experienced installer” refers to a contractor qualified by LCS or its distributors for the installation of Model CP-350.