

# Scalewatcher<sup>®</sup>

## Radiator Protection System

- **Easy to install**
- **Non invasive**
- **Short payback term**
- **Better cooling**
- **No chemicals**
- **No maintenance**
- **Less vehicle repair**

In tropical countries, usually anti freeze or anti corrosion liquids are not mixed with water for radiators of automobiles, buses or trucks. Well water is used instead. The result is that often after one year the radiator has to be replaced because of corrosion and/or scaling. What is more, scaling causes a lower heat transfer. The engine will have a higher temperature and the truck will have to stop sooner for cooling down before being able to continue the trip. The installation of this special unit for trucks or buses will save money on replacement of parts and inefficient down time along the road.

Rust forming is inhibited while the inside of the radiator will be covered with a thin Black layer called Magnetite, which has very good heat transfer properties and will prevent any further corrosion.



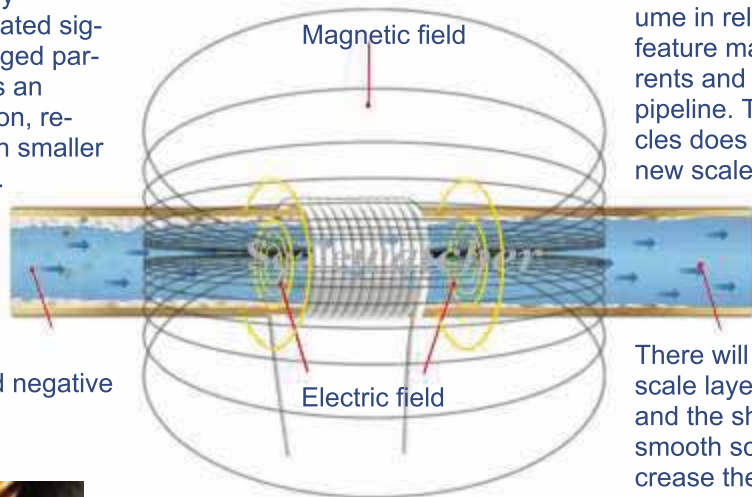
**Increase your mileage!**

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## Radiator Protection System

### How does it work?

The electronic unit works by inducing a complex modulated signal which agitates the charged particles in the water. This has an influence on initial nucleation, resulting in more crystals with smaller size and rounded surfaces.



This treatment creates idiomorphic, scattered crystals, which do not form matted structures. They have a rotundas shape, which means that they have a larger volume in relation to a smaller surface. This feature makes them sensitive to water currents and they are easily flushed out of the pipeline. The deficit of active scaling particles does not only prevent formation of new scale layers.

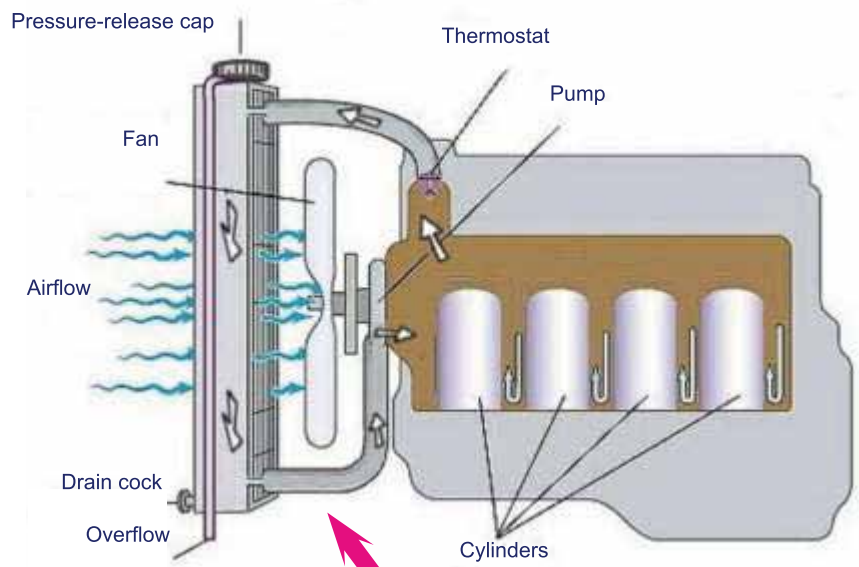
Particles and dissolved minerals with positive and negative charges.

There will also be a slow reduction of old scale layers due to the law of mass action and the sheer force of the flowing water. A smooth scale reduction will slowly increase the pipe capacity and so makes system functioning more efficient."



Rusty radiator sludge

### Where to install?



### Technical Specifications

Input voltage 12 - 40 VDC  
Input current 15 mA at 12 VDC  
Maximum ambient temperature 140 °F/60 °C  
Dimension 3.2"x2.2"x1.4"/82x57x35 mm<sup>3</sup>  
Electronics submersed in resin for durability  
LED Indicator to show correct operation  
Polarity battery connection is not important