

For those who have trouble with cooling tower water pipe maintenance

# Keep clean by the power of water without using chemicals



## Cooling tower water pipe descaling system

Four features

- 1 Removes scale and red rust by electrolyzing water
- 2 Reduces maintenance frequency and cost
- 3 Environmentally friendly as no chemicals are used
- 4 Longer service life of piping and other water-related components

### How is electrolysis used for cleaning?

Water is divided into oxygen and hydrogen by electrolysis using high frequency, and then subdivided into smaller pieces. When the water is reduced to the smallest H<sub>2</sub>O, it undergoes a Brownian motion that repeats rotation and collision 100 billion times per second, dissolving scale and other contaminants in the water and washing it. In addition, when electrolyzed, negative electrons of anti-oxidation are generated, which is effective in preventing red rust.



### Effects and examples

<b>Scale</b>	<b>Before installation</b> 	<b>One month after installation</b>  Recovery of scale stuck in piping
<b>Red rust</b>	<b>Before treatment</b> 	<b>45 days after treatment</b>  Stopped the progress of red rust
<b>Filtration + descaling system</b> 	<b>Before operation</b> 	<b>One month after operation</b>  Red rust is removed, and water is even clearer with filtration equipment.

The purpose of the chiller, i.e., to improve the conduction in the piping and to eliminate clogs, is achieved.

## Efficient heat exchange

Caused by electrolysis to produce more active hydrogen



## Five benefits

- ① Strong antioxidant power
- ② Effective in descaling due to its linearity
- ③ Eliminates toxicity of organic matter
- ④ Eliminates bad odors
- ⑤ Sterilization, etc.

## Descaling system for cooling tower water pipe Q&A





### What happens to scale dissolved in water?

Scale, etc. dissolved in water is recrystallized and collected on the cover of the electrode. Simply removing the collected scale from the cover on a regular basis will clean the pipes. The electrode cover is maintained once a month and removed with a spatula. The work takes about 5 minutes.

### What are the problems with maintenance by chemical injection?

Chemical injection maintenance actually leaves scale behind. Other problems include little effect on red rust and poor heat conduction due to the film on the algae. There is also the cost of chemical injection and the environmental impact of wastewater.

## Product Overview

Product Image	 Standard machine	 Compact machine
Target Equipment	Cooling tower 	Chiller tank 
Size(mm) W×D×H *Excluding cables and protrusion	Controller 300×200×415/ Electrode 265×200×150	Controller 126×93×195/ Electrode 202×104×183
How to use	Special power supply is installed inside the cooling tower or in the lower water tank. Controller is installed near the cooling tower.	Special power supply is installed inside the chiller tank. Controller is installed near the chiller tank. One controller and two electrodes are also available.

Product specifications and design are subject to change without notice.

Please contact us for a product demo or for product inquiries.

