



**VIETNAM CHEMICAL ENGINEERING**  
Safety - Effect - Economy

## Descale & Water Treat

We provide safe, efficient and economical solutions about:

- Removing scale, lime, mud and rust in heat exchangers
- Water treatment of cooling water systems & boiler



**Before**

**After**



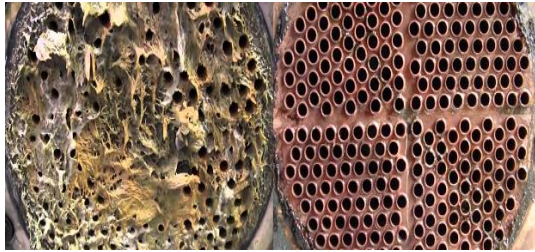
**YOUR PROBLEMS ARE OUR RESEARCH**

**Hotline: +84 985 059 805**

## COMMON DESCALER

P/N: VCE-010001

Common Descaler is a revolutionary liquid descaler that rapidly removes scale, mud, rust, and other non-soluble sedimentary deposits safely and effectively.



- Strong descaling
- Biodegradability
- Non-toxic substances
- Less corrosive
- Safety for users

### APPLICATIONS

- Chillers & condensers
- Boilers
- Heat Exchangers
- Compressors
- Vacuum pumps
- Pipes & tanks
- .....

P/N: VCE-010002

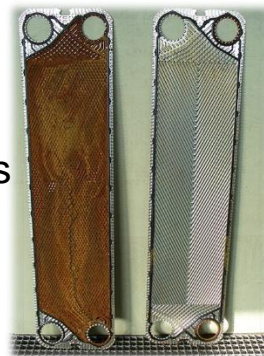
## SPECIAL DESCALER

### APPLICATIONS

- Plate heat exchangers
- Stainless steel filters
- Aluminum radiators
- Stainless steel equipment
- Pipes & tanks
- Washers
- .....

Special Descaler is a descaler with maximum safety. It is used for surfaces such as: stainless steel, iron, steel and aluminum.

- Strong descaling
- Biodegradability
- Non-toxic substances
- Safety for users
- Anti-corrosion layer
- Change color



## SUPER SIL DESCALER

P/N: VCE-010004

SUPER SIL DESCALER is a specific descaler for silicate scale. It helps to soften and remove some residue. Manual cleaning of equipment is necessary.

- Good descaling
- Biodegradability
- Less corrosive
- Safety for users

### APPLICATIONS

- Chillers & condensers
- Boilers
- Heat Exchangers
- .....

P/N: VCE-040002

## ALSOCLEANER S

### APPLICATIONS

- Cooling water systems
- Closed Circuit Cooling
- Cold systems
- Boilers
- New water systems
- .....

Alsocleaner S is a multifunctional "**ONLINE**" Cleaner: remove, disperse oils, grease, scale, sediment, rust and organic matter in your system. Moreover, it will passivate and protect system metals from corrosions.

- "**ONLINE**" Cleaner
- Multifunction
- Biodegradability
- No toxic substance
- Safety for users
- Anti-corrosion layer

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# Cooling Water Treat

## Cooling Treat One Shot

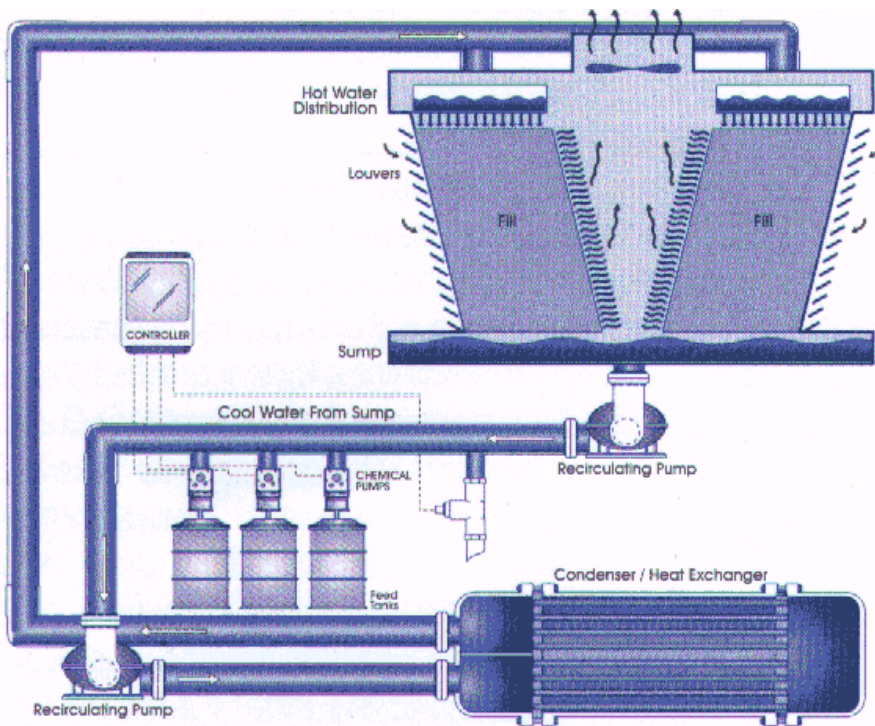
P/N: VCE-CL0002

Cooling Treat One Shot is a multi-polymer combination and pH buffer that helps control many system problems with just one product.

1. Stable system pH at 8-9
2. Prevents formation of scale even with calcium, alum and silicate
3. Inhibits corrosion
4. Highly effective dispersion of organic and inorganic foulant, sludge and other contaminations

### APPLICATIONS

- Cooling water systems
- Closed Circuit Cooling
- Cold systems
- Evaporative condensers
- .....



## Antibac Organic

P/N: VCE-CL0003

It is a synthesis of organic microbicides. Therefore, it is not as corrosive as oxidizable inorganic compounds. It is suitable for all cooling water systems, even galvanized evaporative condensers.

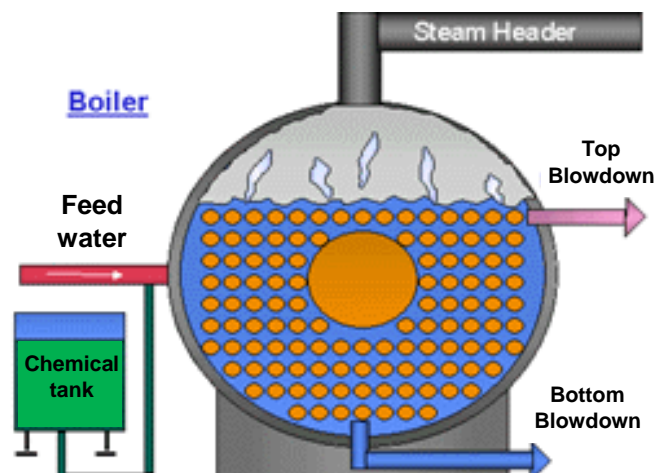
# Boiler Water Treat

## Boiler Treat One Shot

P/N: VCE-BL0001

It provides solutions to common problems common of boilers: corrosion and scale. As a multifunctional product, it supports:

1. Alkaline control
2. Anti-corrosion
3. Control the scale
4. Oxygen scavenger
5. Sludge modification



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## Effect of Scale on Evaporative Condenser Performance

Even minimal amounts of scale on the condensing coil surface will affect the performance of evaporative condensers. Figure 1 illustrates the impact of scale build-up on condenser performance. With only 0.5mm thick scale, the evaporative condenser performance is robbed of 17% of its heat transfer capability. As scale thickness increases, capacity losses increase significantly.

### The Cost of Scale

With just 0.5mm thick scale, the compressor power will increase 5% and the compressor tonnage will decrease 1%. This reduces maximum plant throughput and associated revenue by a similar percentage. Figure 2 illustrates further penalties as scale increases.

In addition to lost throughput, the energy costs for 0.5mm of scale on the coil are significant.

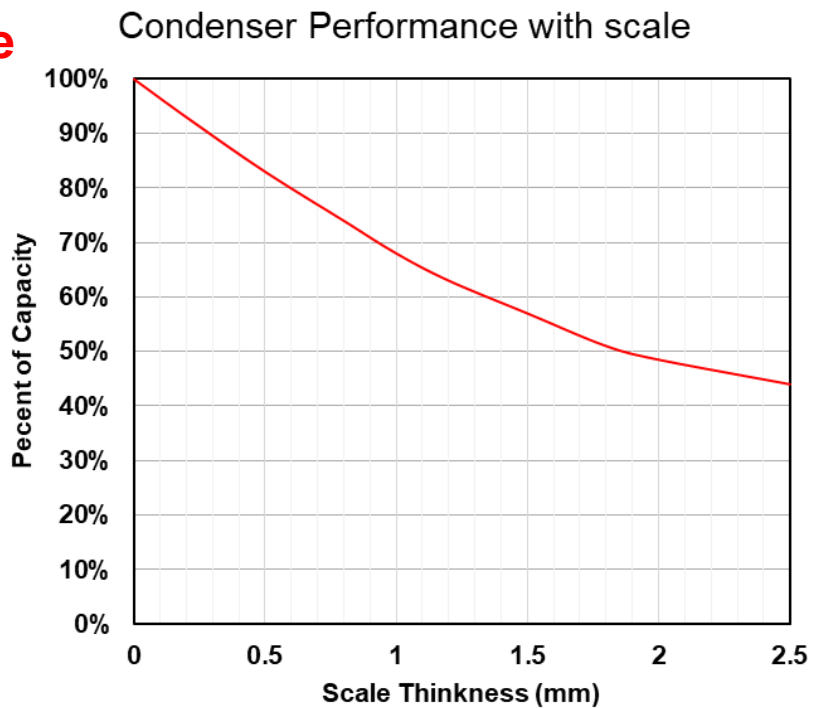


Figure 1

### Compressor Capacity and Horsepower with Condenser Scale

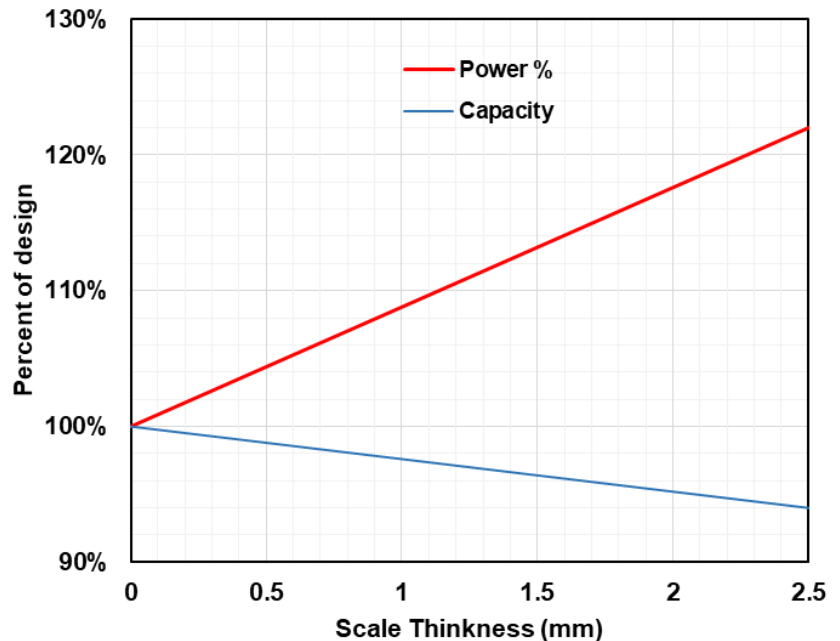


Figure 2



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