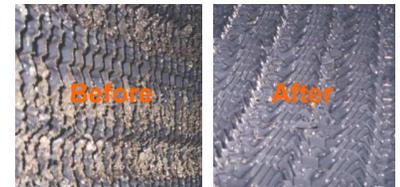
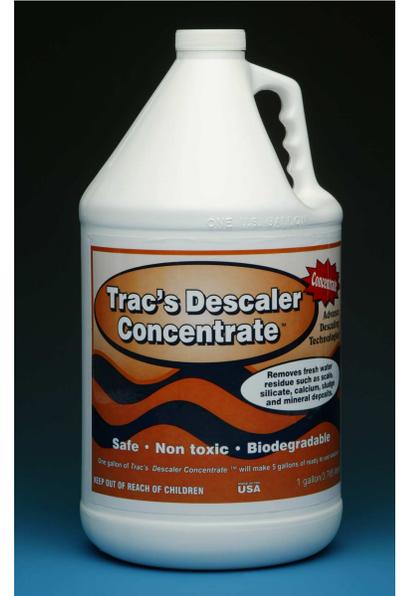
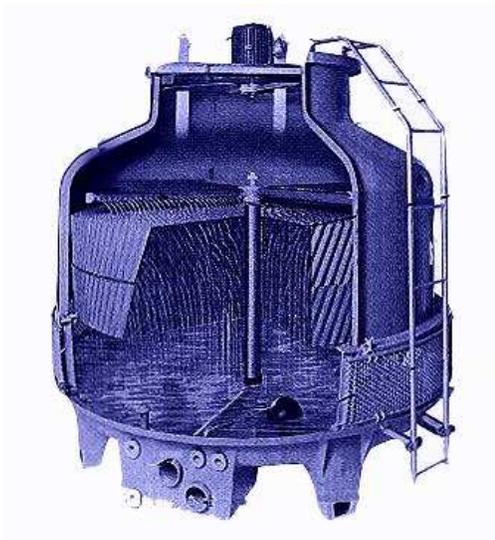


**Cooling Tower cleaning instructions.**

**Why should I use Trac's Descaler Concentrate™ ?**

- Scale deposits can dramatically reduce heat transfer. As little as 1/64" of scale build-up can reduce system efficiency by as much as 15%. Although there are many descalers on the market today, most solutions are hydrochloric acid based and can easily damage equipment. Only **Trac's Descaler Concentrate™** can safely remove scale, rust and scale build-ups from deep within a system, **Trac's Descaler Concentrate™** is 100% bio-degradable, safe to both the user and equipment, and is completely non-toxic.



<b>Build Up</b>	<b>Description</b>	<b>%</b>
Light Scale	Deposits are light in color and spaced out.	2.5%
Heavy Scale	Mineral deposit is thick and found throughout the system.	5%

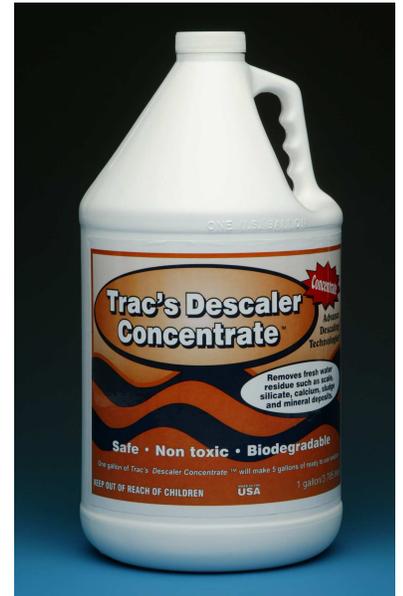
**When to use Trac's Descaler Concentrate™ ?**

- When scale built-up on the heat transfer surfaces is noticed .
- When the delta-T between the cooling towers' inlet and outlet water temperature is greater than 8F.
- If cooling tower fill water has scale built up or algae.
- If scale built-up is noticed at the bottom of the cooling tower pan.

## ***Cooling Tower cleaning instructions.***

### ***Cleaning Instructions:***

- Determine the total water capacity of the system by adding up the length of the different size piping, capacity of the cooling tower and any chillers. Refer to our Pipe Gallonage Chart to determine the capacity of different size of piping
- Turn off the systems make up water and bleed.
- Drain cooling tower pan to where the water level is at its minimum, making sure not to drain to much, or the pump might cavitate.
- Using the chart above and the systems capacity, slowly add the proper amount of **Trac's Descaler Concentrate** in the cooling tower. Let the system recirculated for a minimum of 10 hours
- After 10 hours of circulation, turn the make up water and bleed off back on. This will in turn help remove the dissolved residue from the system
- To remove all residue from the system, it is recommended that the cooling towers drain valve is opened and the make up water added until the recirculating water is clear in color.



### ***Warning***

- When descaling a closed water cooling system, sometimes it is hard to determine the amount of scale that has accumulated over the years. In some cases the scale build up might be such that the scale might be hiding pin holes in the piping and if this is the case, it can sometimes cause leaks during the descaling process. It is therefore important to determine the system integrity prior to starting the application.
- Also note that in systems with inline condensers units located on each floors might need to be independently flushed.
- When convenient, it is recommended that the sump tank be drained and flushed and that the strainer screen be removed and inspected for any insoluble material.

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