

Your Cooling Tower Filtration System Is Seriously Inadequate And Costing You Tens Or Hundreds Of Thousands Of Dollars Per Year In Unnecessary Downtime & Maintenance Costs!

WOULD YOU LIKE TO ELIMINATE THE NUISANCE & EXPENSE OF HAVING TO SHUT-DOWN YOUR COOLING TOWER FOR ANNUAL SUMP CLEANOUTS?

YOUR PROBLEM

Most so-called state-of-the-art cooling tower filtration systems in use today have ONE BIG SERIOUS FLAW - THEY CAN ONLY FILTER OUT CONTAMINANTS 10 MICRONS OR LARGER IN SIZE. The finer (under 10 micron) particles and micro-organisms settle out as mud and slime in the cooling tower sump, necessitating periodic plant shutdown and cleanout to remove. In addition, the effectiveness of your chemical treatment program can seriously deteriorate in proportion to the purity of the water being treated.



** Filters For ALL Sizes of Cooling Towers*

OUR SOLUTION

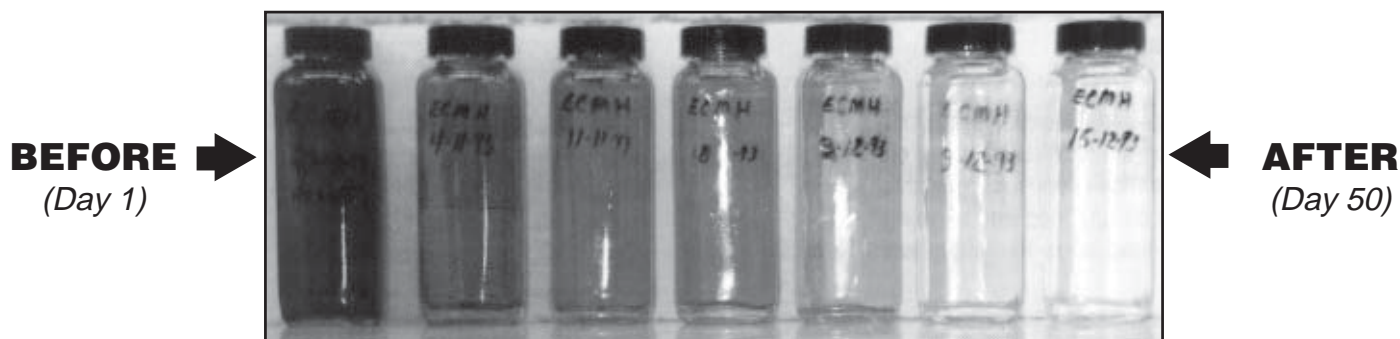
VORTISAND fixed or portable combination **VORTEX-SAND** sidestream cooling tower filters remove system debris to 1/2 micron in size dramatically reducing or eliminating the required frequency for plant shutdowns to cleanout cooling tower sumps.

The crystal-clear condition of water produced by the **VORTISAND** filter allows most state-of-the-art chemical treatment systems to operate at substantially higher levels

of efficiency giving you a much **"bigger bang for your chemical treatment buck"**.

Very Impressive Results

In most cases, a **VORTISAND** filter can dramatically clean up your cooling tower water in just 45 - 50 days and then maintain the new higher level of purity for an indefinite period of time.



THE BEST INDICATION OF WHAT A VORTISAND FILTER CAN DO FOR YOU IS TO CONTACT A FEW OF OUR MANY USERS AND HEAR WHAT THEY SAY!

For additional information contact...

GREAT LAKES INDUSTRIAL CONTROLS

3560 Pine Grove Ave. - Unit #352
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VORTISAND HIGH-PERFORMANCE FULLY AUTOMATED COOLING TOWER FILTERS

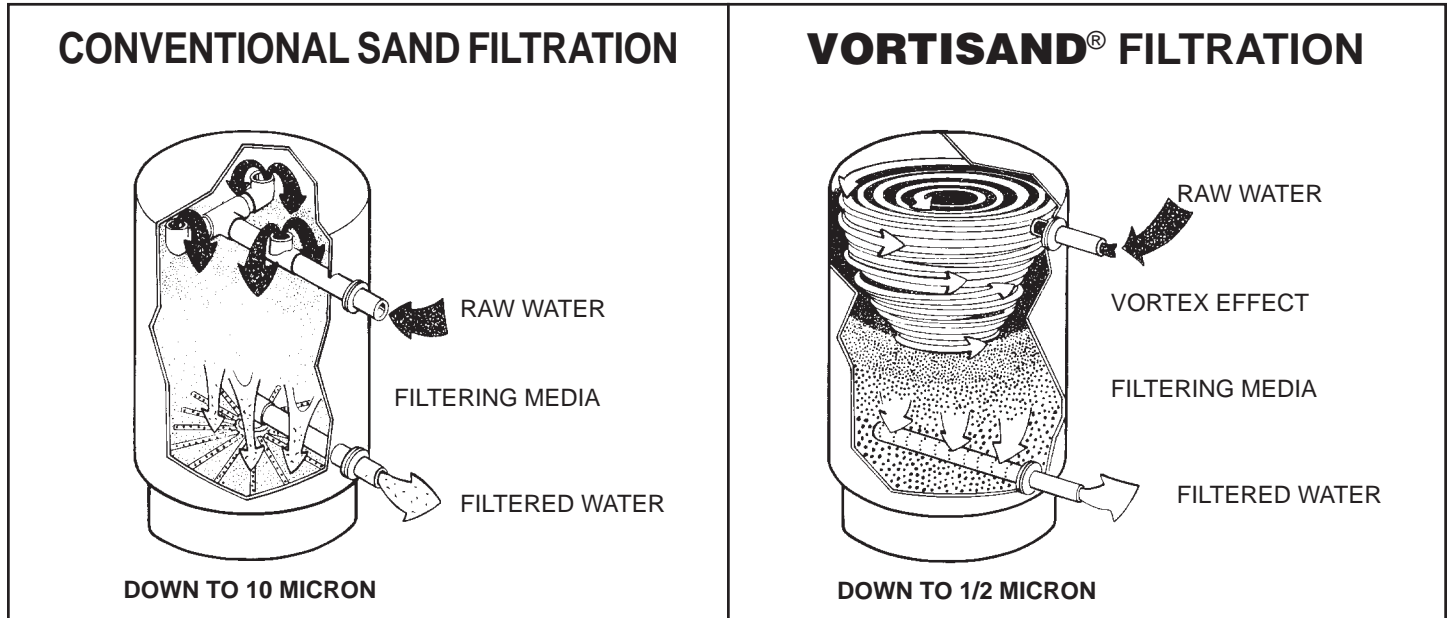
SIGNIFICANT BENEFITS:

- Can substantially enhance the performance of your chemical treatment program
- Typical payback is under 12 months
- Eliminates periodic maintenance required to clean out cooling tower sumps, in most cases
- Lower energy costs due to improved heat transfer through cleaner coils & tubes
- Can eliminate unscheduled outages due to fouling
- Mechanical life of coils and exchangers are dramatically extended

SIMPLE, EFFICIENT OPERATING PRINCIPLE

VORTISAND® filters have proven themselves for more than 15 years and are the result of many years of research and development which today provides filtration 10 to 20 times finer than that of sand filters now available on the market. Designed for 1/2, 2, 5 and 10 micron filtration, their high performance is due to a unique concept which ingeniously combines centrifugal separation and sand filtration.

Using centrifugal force (a vortex effect) to whirl the raw water above the filtering medium (sand) helps remove solid contaminants (in suspension) and significantly increases the effective filter surface within the tank. The turbulence causes a sustained cleaning action which forces the suspended particles to accumulate on the inside walls of the tank, so much finer sand can be used without any clogging problems. The water, now largely free of impurities, is filtered through the media and subsequently collected and used for a variety of purposes. The contaminants remaining above the sand are removed during water backwashing, which also requires less water and a shorter operating time than with conventional sand filter systems. The process therefore allows longer cycles and much finer filtration levels (1/2 micron vs. 10 micron and up).



Once installed, **VORTISAND**® filters need no attention during backwash and rinse cycles, yet they provide outstanding advantages:

- Exceptionally efficient filtration, with no clogging
- Longer filtration cycle than conventional filters
- Lower water consumption during backwashing
- Filtration capacity up to 17 gpm/sq. ft., 4 times greater than conventional filters
- Filtration flow: 8 to 1,200 USgpm
- Compact configuration for optimal space utilization
- Long-life stainless steel tank(s)

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