

Cooling Tower Review

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Major Innovation in Film Fill Media

Film fill media has been a tremendous technology for wet evaporative cooling towers. It has allowed the design of highly efficient, cost effective and low operating cost towers. Inherent in the use of a tower designed with film fill is the need for the owner/operator to maintain a close eye on the quality of the circulating water in order to prevent fouling of the fill media. If allowed to happen, fouling will reduce dramatically the efficiency of the tower and eventually lead to the replacement of the fill media.

Our supplier of premium film fill media has introduced what will be a major innovation to today's film fill media. Incorporated into the raw material used to manufacture the fill material is an anti-microbial compound, which slows the growth of biofilm on the media surface. Biofilm growth acts as glue to which unwanted contaminants adhere reducing the heat transfer capability of the film fill media. This new addition to the compounds used to manufacture the fill sheets is being called ACCU-SHIELD™

Recent tests show that film fill products without ACCU-SHIELD™ gained 2.5 times more weight than products with ACCU-SHIELD™.

Additionally, ACCU-SHIELD™ offers the following benefits:

- It is environmentally safe, both EPA and FDA approved
- Does not diminish the heat exchange performance of the fill media
- Is unaffected by temperature extremes
- As it is part of the compound it will not wear off like a simple coating
- Meets CTI Standard 36 for PVC materials
- Does not weaken the PVC material in any way
- Inhibits the growth of microorganisms

Currently available in the most common fill configurations it can be added to all PVC fills and Drift Eliminators.

For a quotation or additional information contact Ecodyne Cooling Products toll free at 1-888-ECODYNE or e-mail us at stephen.rogers@ecodyne.com.

**For After-Hours, Weekends and Holiday Emergency Service call us at 1-888-326-3963
Website: www.ecodynecoolingtowers.com**

Speed Reducer Replacement Considerations

A key component on any tower is the speed reducer. Maintaining a spare unit in stock can be money well invested as it allows you to eliminate the excessive lead time the Speed Reducer manufacturers are currently facing.

However, in some situations you may have to repair or replace your gear unit in a hurry. If that situation arises, Ecodyne is the solution for your needs.

Of course, the easiest to accomplish would be to replace in kind with the same ratio, model and manufacturer. When that gear is simply not available in a reasonable time consider the following:

- A. Utilize an adapter plate designed to transition to another gear model/make by bolting the adapter plate to the existing gears bolting pattern. Many times this option has cut weeks off schedules while saving significant maintenance dollars.
- B. Consider an A-Series gear when replacing a Marley gear. The A-Series is designed to be a direct drop in replacement, matching bolting patterns, ratios, and shaft sizes of your existing Marley gears. This approach will increase your supplier base while offering measurable cost savings on most applications.

For a quotation or additional information contact Ecodyne Cooling Products toll free at 1-888-ECODYNE or e-mail us at mark.kerr@ecodyne.com.

Keep It Clean For Safety, Performance And Cost Savings

A clean water distribution system is an easy way to prevent loss of thermal performance and costly repairs.

For example;

Ecodyne received a call from a client complaining of poor tower performance of his cooling tower. After a careful inspection, it was revealed the distribution system was severely plugged with scale and dirt. All it took was a thorough cleaning by the plant maintenance personnel to produced dramatic results. After cleaning and replacing a number of broken nozzles, full flow to the complete tower was achieved. With tower performance restored, the client had no need for the "helper cooling" utilized in the hottest parts of the summer. This simple maintenance routine cut costs and improved reliability.

Service and Support of Cooling Towers Worldwide

- New Towers
- Reconstruction
- Thermal Upgrades
- Preventative Maintenance
- Spare Parts
- Inspections
- Performance Testing
- Consulting

Contact the Ecodyne representative nearest you.