



CASE STUDY:

Factory-Assembled, Crossflow Tower Repack



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Location: Maryland, USA

Products Installed: XF75ID, XF75, & XF Support System

Results: Improved fill performance & drift elimination

Overview

Following 15 years of operation, it was time to replace the fill for a factory-assembled, crossflow cooling tower in Baltimore, Maryland. The owner partnered with a reputable cooling tower contractor to choose a fill supplier that could meet the tower's needs and improve performance. The contractor turned to Brentwood, having worked together on numerous successful projects, for their quality products and applications expertise.

Problem

The two-cell cooling tower, servicing a chemical company, utilized OEM hanging sheet fill material with integral drift eliminators. The fill was fouling so badly that it was plugging, thereby restricting air and water flow and negatively impacting performance.

Additionally, the fill was beginning to age and deteriorate, and the tower was experiencing drift issues due to its high fan velocity and failing fill.

Solution

Based on the information provided by the contractor, Brentwood recommended an upgraded product to the OEM material that would restore the tower to its intended capacity: a high efficiency, bottom-supported fill with integral drift eliminators.

XF75 and XF75ID were chosen at a 10° angle for easy installation in the packaged, crossflow tower. These fill packs include integral drift eliminators to combine drift loss with the high thermal performance of the standard XF75 herringbone fill pack.

To complement the fill and its bottom-supported design, XF Supports were also included as part of the installation. Engineered to integrate with existing cooling tower structures, these supports were easy to install and were sized to fit this specific crossflow tower. They offered a heavy-duty solution that would allow for maximum weight distribution over increased surface area, while ensuring ease of access for basin cleaning.

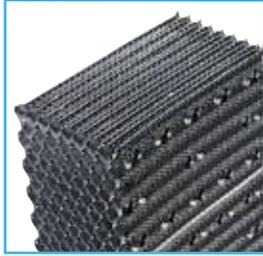
Results

The contractor successfully replaced the fill and installed the supports on time and under budget, improving performance and restoring the tower's capability.

Brentwood Inside: Products Installed for the Factory-Assembled Crossflow Tower Repack

XF75

Brentwood's XF75 utilizes a proven herringbone surface design that evenly distributes water for high thermal performance. The packs feature honeycomb bonded edges and interlocking offsets that space the sheets to form strong, stackable packs.



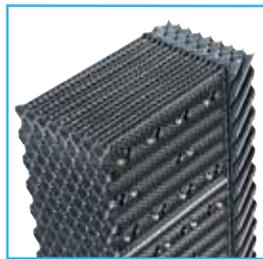
XF Support System

The XF Support System is designed specifically to support XF75 fill, offering a heavy-duty, easy-to-install solution. It allows for maximum weight distribution and ensures ease of access for basin cleaning and maintenance.



XF75ID

XF75ID packs include integral drift eliminators to combine drift loss with the high thermal performance of the standard XF75 fill pack.



BRENTWOOD INDUSTRIES, INC.
500 Spring Ridge Drive
Reading, PA 19610, USA
+1-610-236-1100
coolingtower@brentwoodindustries.com

