



CASE STUDY: University Crossflow Tower Repack



University Crossflow Tower Repack

Location: North Carolina, USA

Products Installed: XF75, XF75ID, XF75IL

Results: Improved fill performance

Overview

Following years of operation, a 5-cell field-erected crossflow tower at a university in North Carolina was due for a fill replacement. The university partnered with a reputable cooling tower contractor to find the needed replacement fill and get it installed.

Problem

The tower, which provides comfort cooling for students and staff, utilized OEM hanging sheet fill material that was failing and falling out of the tower. When the contractor set out to replace it with the same type of fill, at the owner's request, they learned that the hanging sheets were no longer available.

Solution

Having worked on numerous successful projects together, the contractor turned to Brentwood for a solution. Brentwood recommended an upgraded product to the OEM material that would restore the tower to its intended capacity and eliminate the inherent shortcomings of the hanging sheet design: a high-efficiency, bottom-supported block fill.

XF75 was chosen to provide high thermal performance, offering an upgrade over the OEM hanging sheets. Since the XF75 packs are bottom-supported, the stress imparted on the products is reduced by supporting it over more surface area. Coincidentally, the 12-foot XF75 packs were also a perfect fit for the tower's air inlet height.

XF75ID and XF75IL were also utilized to provide integral solutions for drift elimination and splashout prevention.

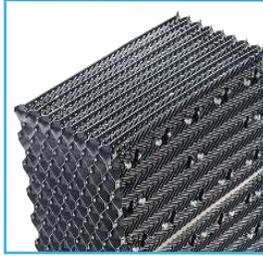
Results

The fill was successfully replaced on schedule, improving performance and restoring the tower's capability for many more years of operation.

Brentwood Inside: Products Installed for the University Crossflow Tower Repack

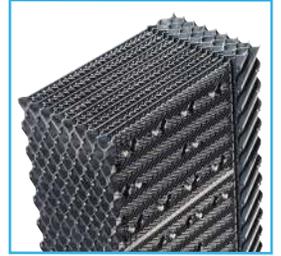
XF75

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.



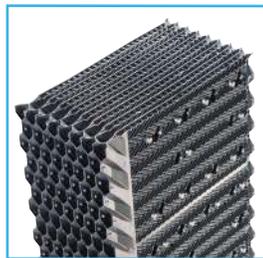
XF75ID

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



XF75IL

XF75IL packs include integral inlet louvers to provide splashout prevention as an added benefit to the high thermal performance of the standard XF75 fill pack.



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