



Cooling Towers



A COOL INVESTMENT

BME COOLING TOWER REBUILDS ARE AS GOOD AS NEW!

NEW TOWERS • RENOVATION • REPAIR • PARTS

Often, a cooling tower rebuild makes more sense than purchasing a new tower. BME has over 30 years of field experience installing both new and rebuilt towers. Helping managers find the best solution for their particular circumstances has always been our top priority.

Here is some information you should know before you make a decision:

- Rebuilds frequently cost about 50% less than a new tower.
- You can increase your tower's capacity between 30-100% without any increase in fan motor horsepower.
- Disruption of your business operation is substantially reduced with rebuild, because rebuilds can be completed during shut-down periods or seasons that do not require cooling. We can even rebuild towers that are in operation.
- Rebuilds are guaranteed as long, if not longer than new tower installations.

Given those reasons to choose a rebuild over a new installation, here's the support you can expect from BME.

- **Experience** – BME has a team of engineers and field construction professionals who have successfully completed major new and rebuild projects on-time and within budget. Our team has worked nationwide, from Miami, Florida to Ketchikan, Alaska.
- **Quality** – BME is committed to using only the finest materials available for cooling tower upgrades...industrial grade fill and eliminators, stainless steel nails, bolts and nuts and pressure-treated redwood. This is why our rebuilds can last 20 to 25 years or longer.
- **Knowledge** – BME has been helping managers make decisions concerning new and rebuilt cooling towers since 1979. We understand the process, materials, and technology.
- **Guarantee** – A BME rebuild exceeds the guarantee of a new tower.
- **Your Next Step** – First, give us a call. We will send you our Tower History Form. Once you have filled out the necessary background information, and included a few key photos, we will analyze the results, project some performance improvements and set up a detailed on-site inspection. Our next step is to review the inspection results with you, and within days, send you a detailed proposal specifying performance improvement guarantees. With your acceptance of the proposal, our experienced BME supervisor and crew will arrive and complete the work on time and to your satisfaction.

Since redwood is naturally resistant to decay, it can be expected to last 25 years or more, even in the harsh environment of a cooling tower.

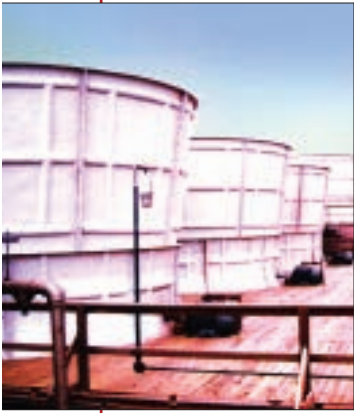


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PROOF POSITIVE:

The BME Cooling Tower Division, headquartered near Cincinnati, OH, consistently increases tower capacity well beyond manufacturer's specifications. The following case studies are just a few of the many that The BME Company has on file documenting cost-effective, creative solutions for every type and make of tower rebuild. Company president, Dan Roszkowski, says, "the challenge is always the same...to show customers that there is a cost-effective, guaranteed alternative to purchasing a new tower."

"We get a kick out of proving that our upgrades can deliver such impressive increases in capacity" he comments. "And don't forget, we're not changing the footprint size of the existing tower or even altering the horsepower in most cases."



Rebuild completed on-time even when unexpected, severe damage was encountered

Major Steel Mill, Northern Ohio

Mill had a cross-flow 10,700 gpm, two-cell wood tower that was over 30 years old. The tower was seriously deteriorated because of age and ice damage. Its thermal performance had fallen far below specifications.

Since the cooling tower was required for the manufacturing process, the fill, drift eliminators and hot water basins were replaced during a six-day scheduled outage.

After the existing fill and drift eliminators were removed, we found severe wood decay in the structural members of the tower cells. This meant not only more material but 750 additional man-hours, all of which had to be completed within the same six-day window. In order to complete the work on schedule, production was increased.

The cooling tower cells were successfully renovated including the upgrading of the structural integrity of the tower. Not one day was lost in the customer's production, despite the additional work required. In addition, a potentially catastrophic structural failure was avoided.



Cooling Tower capacity increases 72%

St. Vincent Medical Center, Little Rock, AR

Customer had two towers that were in serious need of either replacement or rebuilding. After initial discussions, the facilities manager decided that a rebuilt tower would be the wisest investment for his company's particular needs.

- Cross-flow tower (initially installed in 1976) Original design conditions were to cool 2700 gpm from 98.5°F to 85.5°F at an 80° WBT. BME upgraded tower in winter months to cool 3,100 gpm from 101°F to 85°F at an 80° WBT - an increase in capacity of 72%.
- Cross-flow tower (initially installed in 1967) Original design conditions were to cool 5,520 gpm from 101.6°F to 85°F at a 79°F WBT. BME upgraded tower in winter months to cool 7,000 gpm from 101.5°F to 85°F at an 80° WBT - an increase in capacity of 26%.



Forced Draft Rebuild of BAC VST-1200 Cooling Tower

Office Complex, Cincinnati, OH

This office tower is an 18-story building located in the downtown area of Cincinnati. The BAC cooling tower is located within the building on the 17th floor. The system was 8 years old and equipped with asbestos fill. The building management wanted the fill replaced with new, high-efficiency PVC fill. Other components of the job included:

- Grinding of all interior metal surfaces.
- Coating the interior metal with special rubber based polymer metal protector.
- Repair of concrete pillars that support the tower.
- Balancing of the fan system.

This rebuild has already added 10 years to the life of the tower and should continue to operate trouble free for an additional 10 years.

