

Case Study

COLCHESTER WATER FAN

TWIN CITY FANS ADD LONGEVITY

THE CHALLENGE REPLACING AN OLD, RUSTED FAN UNIT

When the Town of Colchester called Flow Tech looking for a replacement fan, they were in a precarious position. The aeration tank, serving a portion of the town's public water supply, had been served by two galvanized steel fans for the past couple of decades. Two fans were used to offer a lead-lag scenario, providing a backup fan if one fan were to fail. However, the harsh New England weather conditions and chemicals from the aeration tank corroded one of the fans beyond repair. The Town needed a replacement, and quickly.



THE SOLUTION INSTALLING A TWIN CITY FAN

After gathering important information about the project, Flow Tech visited the site to assess the situation. Flow Tech worked with the town to provide several options for replacement, including an option for aluminum construction due to its superior corrosion-resistant properties. Even though the aluminum construction proved to have a higher cost than standard galvanized steel, the Town realized its quality and decided it was worth the investment.



THE RESULTS SAVINGS, LONGEVITY, EFFICIENCY

Town workers successfully installed the replacement fan on their own, reusing the existing motor and controls. The new fan was much quieter and shinier than its predecessor, as corrosion had caused the old fan wheel to come out of balance. In fact, compared to the second, existing galvanized steel fan, the new aluminum Twin City fan was at a whisper. The town was so pleased with the new application that they ordered a second fan so that both aeration tank fans would be aluminum Twin City fans, ensuring safe, quiet and efficient operation for decades to come.

