



Estee Lauder, Melville NY

Estee Lauder Case Study: Melville, NY

Project Overview

At its Melville, NY facility, Estee Lauder sought a durable, long-term solution to upgrade its aging steel piping system. The company transitioned to Aquatechnik's polypropylene Fusion piping system, recognizing its ability to improve reliability, energy efficiency, and both immediate and long-term cost savings.

Project Details

- **Location:** Melville, NY
- **Facility Specs:** Manufacturing and office facility
- **Scope:** Replacement of outdated steel piping with Aquatechnik polypropylene Fusion piping
- **Challenges:** Frequent pipe failures, high maintenance costs, energy inefficiencies, and scaling issues

Solution Implemented

Aquatechnik's polypropylene Fusion piping replaced the aging steel infrastructure, providing a leak-proof, low-maintenance solution. The upgrade improved heating and cooling performance while optimizing temperature control and efficiency. The project targeted chiller and dual-temperature piping, ensuring reliable year-round operation. The system's lightweight design allowed for a faster, more cost-effective installation. Its 30-year, \$10

million warranty reinforced confidence, while its thicker, less conductive material improved insulation and energy retention.

Contractor Training

Training was quick since the contractor was experienced with polypropylene piping and favored it for its cost savings and efficiency. They attended a session at Rathe Associates for best practices, and our experts provided onsite guidance to ensure a smooth installation.

Key Benefits & Results

- **Long-Term Reliability:** Eliminated corrosion-related issues, extending system lifespan.
- **Energy Efficiency:** Improved fluid dynamics reduced pumping energy consumption by 15-20%.
- **Operational Cost Savings:** Minimized repairs and lowered material and labor expenses.
- **Scaling Prevention:** The non-metallic piping eliminated mineral buildup, reducing maintenance needs.
- **Enhanced Insulation:** The thicker, less conductive piping helped retain temperature, improving system efficiency.
- **Seamless Integration:** Fusion-welded joints provided a fully leak-proof and maintenance-free system.



Conclusion

Estee Lauder's transition to Aquatechnik's polypropylene Fusion piping modernized its mechanical systems, improving efficiency, durability, and cost savings. The streamlined installation reduced labor costs for the contractor, who valued its reliability and ease of use. By addressing scaling, energy loss, and corrosion, this solution optimized operational expenses. The substantial warranty further reinforced confidence, making it ideal for high-demand industrial applications.

