



PROJECT PROFILE

Class A Office Space

Project At a Glance

Location

2000 Westchester Ave
Harrison, NY.

Area Served

747,595 Sqft

Situation

The building's HVAC system had multiple large, single-belt driven plenum fans with AC motors. Frequent failures resulted in inflated maintenance cost and expensive, lengthy repairs.

Solution

Q-PAC and HTS New York partnered to upgrade the building with an FSI Fan System, requiring no maintenance and a "plug-and-play" design that allows 15-minute replacements and added reliability.

Q-PAC's FSI Fan System solution provided "plug-and-play" simplicity, 93% motor efficiency, modular adaptability, and 100% redundancy.

Challenges

The 45-year-old building had multiple large, single belt-driven plenum fans with AC motors constantly failing or needing repairs. Due to the age and design of the fans, repair parts were harder to source, and the fans would be down for several days before the lengthy repairs even began. The building's manager decided it was time to cut their inflated monthly maintenance costs and the electrical bill with a reliable, maintenance-free solution.

Actions

The Q-PAC collaborated with our New York-based manufacturers' rep, HTS NY, to select and design a customized solution for this 1977 building. The team focused on reducing maintenance costs and improving energy efficiency. FSI Fan System's advanced technology was optimized for the building's specific present needs and future projections, all guaranteed with a 5-year parts warranty and stocked fans and replacement parts.

Results

Q-PAC's FSI Fan System is an ECM solution without belts, bearings, or springs. The modular system has a patented "plug-and-play" system that takes 15 minutes to replace a fan -if required- and allows the needs of the building to grow hand-in-hand with our innovations. The FSI Fan System exceeded the building manager's expectations, using 12.7% less kW at full load while providing 93% motor efficiency, with the peace of mind and security of 100% redundancy.

Notable Highlights

- ◊ 12.7 % less kW at full load with 93% motor efficiency
- ◊ Kitted Fan System solution
- ◊ "Plug-and-play" system that is completely maintenance free