

NORTH CAROLINA FARM BUREAU HEADQUARTERS (PRINTING CENTER) RALEIGH, NC

KEY PARAMETERS

- Type of Facility – Existing Building
- Function – Printing Operations
- Area – 10,000 sf
- Project Completed – November 2017

North Carolina Farm Bureau Mutual Insurance Company, with over \$1.8 billion in assets, provides insurance for farm and non-farm policyholders within North Carolina. The company's printing center generates company newsletters, marketing collateral materials, and billing statements.



Challenges: Traditional filters used in the HVAC system serving the printing center were loading quickly with airborne particles generated by printing machinery and producing high system static pressures that necessitated expensive filter change-outs every two weeks. In addition to the high maintenance costs, the practices



were at odds with the company's commitment to environmentally friendly sustainability practices. Lastly, the company wanted a cleaner workplace environment for employees.

Solution: Dynamic Polarized-Media 2-inch V-Banks were installed in a fan module serving a dedicated duct system within the printing center.

Results: North Carolina Farm Bureau has been very happy with the performance of the Dynamic

Air Cleaners. Management has commented that Indoor Air Quality within the printing center has improved dramatically.

Dynamic Air Cleaners utilize charged polarized-media filters that enable them to load throughout the filter media, unlike traditional filters that load across the face of the filter surface. Filter change-out intervals went from expensive filter replacements every two weeks to vacuuming the Dynamic V-Bank screens once quarterly and replacing the polarized-media annually.

Lower HVAC system static pressures have reduced the amount of fan energy required to push air through dense, dirty filters. In the end, the approach offered superior indoor air quality, ongoing sustainability, and verifiable energy savings.



TEAM

- Owner – North Carolina Farm Bureau
- Engineering – Brady Trane Service, Inc.
- Mechanical – Brady Trane Service, Inc.

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