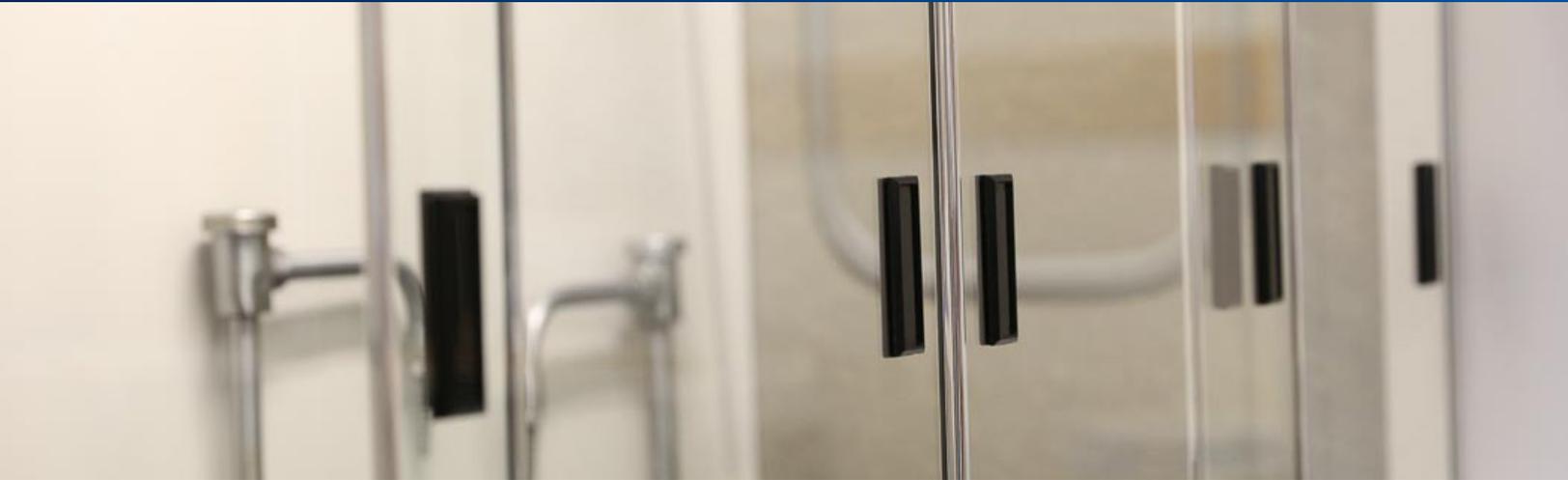


Borough of Manhattan Community College

FlowSafe Stable Vortex® Fume Hood Conversion Kit Installation



About the College

Established in 1964, the Borough of Manhattan Community College (BMCC) is located in Manhattan, New York, and serves 26,000 students in the heart of the Tribeca neighborhood.

In support of undergraduate student research, BMCC established the Undergraduate Research Core Facility and funded a major renovation to offer students and faculty a state-of-the-art research facility.

The facility houses labs for biotechnology, forensics, chemistry, engineering, physics, tissue cultures, microscopy, molecular biology, genetics, microbiology, zoology, plant physiology, and more. Students experiment with cutting-edge techniques and obtain first-hand knowledge of working in a research lab.

- 46 upgraded fume hoods
- Safer environment for students

About the Fume Hood Upgrade

The currently installed fume hoods were over 30 years old and had no fume hood controls, so part of the facility's upgrade plan included installing the patented FlowSafe Stable Vortex® Fume Hood Conversion Kits to create a safer learning environment. FlowSafe fume hoods are also much quieter than conventional fume hoods, which makes them an ideal choice for learning labs.

BMCC chose Stable Vortex® Conversion Kits chiefly because of the drastically improved lab safety aspect but also because of the inherent energy savings the technology provides. BMCC worked in conjunction with an energy service company (ESCO) during the facility renovation to implement a broad range of efficient energy solutions, and the Stable Vortex® Fume Hood upgrade was an integral part of the facility's energy savings.

- Improved energy efficiency
- Quieter labs

FlowSafe Stable Vortex® Fume Hood Conversion Kits cost on average, 50-60% less than installing new fume hoods.



Before



After

The Installation Process

BMCC is located in the largest city in the United States, which can require complicated delivery plans. Compared to removing and delivering 46 new fume hoods, the conversion kit approach created an easier method to physically deliver the laboratory upgrade to the sixth floor of the college.

The Conversion Kits were installed by simply removing the internal working elements of the outdated fume hood, and replacing them with the Stable Vortex® components and controls. This method did not require any asbestos abatement, as the original fume hood envelope remained in place. Johnson Controls also provided a custom paint design that matched the previously installed hoods to give a more cohesive finished product.

The ability to upgrade the laboratories without having to entirely replace the fume hoods not only saved the college money, but also allowed for a flexible installation schedule that accommodated summer classes and would not interfere with the fall semester.



- Flexible installation schedule
- No asbestos abatement required
- Color matching to fume hood envelope

Johnson Controls is making the world safer, smarter and more sustainable – one building at a time. Our technology portfolio integrates every aspect of a building – whether security systems, energy management, fire suppression or HVACR – to ensure that we exceed customer expectations at all times. We operate in more than 150 countries through our unmatched network of branches and distribution channels, helping building owners, operators, engineers, and contractors enhance the full lifecycle of any facility. Our arsenal of brands includes some of the most trusted names in the industry, such as Tyco®, YORK®, Metasys®, Ruskin®, PENN®, Simplex® and Grinnell®, and now the Triatek® line of critical environment controls.

www.johnsoncontrols.com
or follow us [@johnsoncontrols](https://twitter.com/johnsoncontrols) on Twitter