

Case Study

Borough of Manhattan Community College

Stable Vortex® Conversion Kit Upgrade



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

In support of undergraduate research, BMCC established the Undergraduate Research Core Facility on the 6th floor of its main campus, and in 2016 it underwent a major renovation to offer students a state-of-the-art research facility.

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

Previously, the laboratories at BMCC had no fume hood control, so part of the facility's upgrade plan included installing Stable Vortex® Fume Hood Conversion Kits into all of the fume hoods.

The Stable Vortex® Conversion Kit adapts conventional fume hoods into high performance, low flow fume hoods that deliver a superior level of safety for the user, while

providing substantial energy and cost savings for a laboratory facility. Safety features include better air control to keep toxic air from escaping and horizontal sliding sashes to fully protect the user from splashes and explosions. Vertical-only sashes can leave shorter users more vulnerable to toxic materials.

- ▶ **46 Conversion kits**
- ▶ **Energy efficient lab upgrade**
- ▶ **Better fume hood control**
- ▶ **Safer environment for students**

The Conversion Kit is installed by removing the internal working components of the conventional fume hood, and installing the Stable Vortex® component in its place. The original fume hood cabinets remained in place and the Conversion Kit accommodated the varying hood sizes throughout the laboratories without having to alter the fume hood envelope.

The Conversion Kit enabled facility managers to upgrade the laboratories without having to entirely replace the fume hoods. This not only saved the college money, but also allowed for a flexible installation schedule.