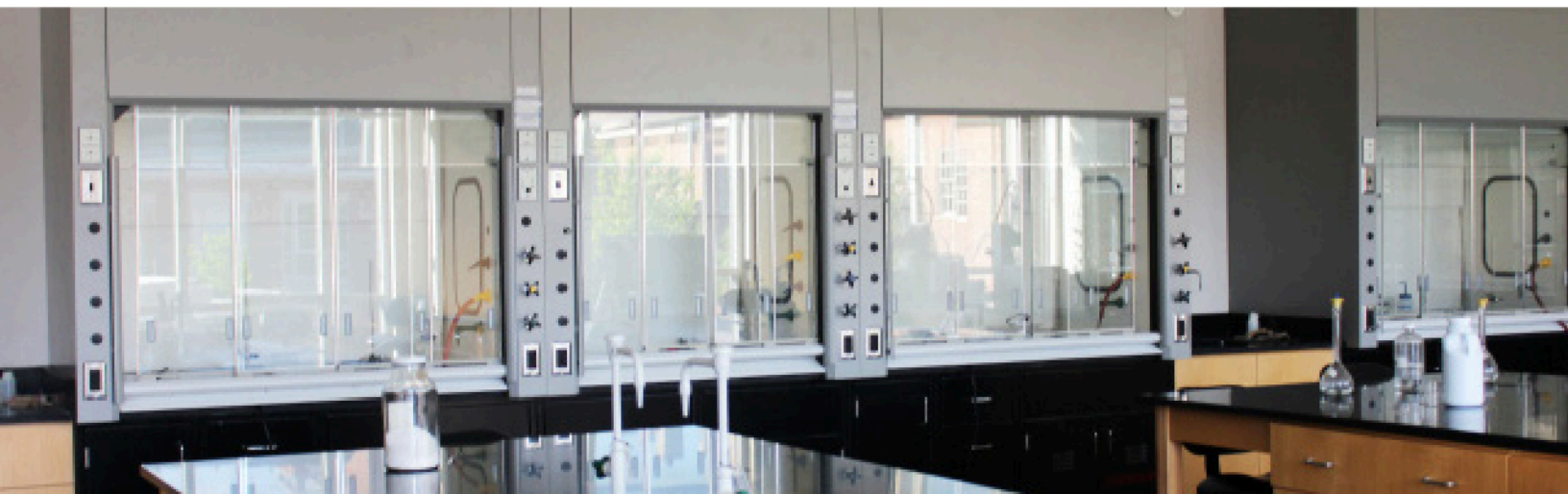




# Furman University Townes Science Center

## FlowSafe Stable Vortex II Fume Hood Installation



- 120 Stable Vortex II Fume Hoods
- Met energy efficiency goals
- Chosen for a premiere level of safety
- LEED Gold Certified facility

### About the Facility

Furman University is a liberal arts university located in Greenville, South Carolina. Among the university's scientific pursuits is a dedication to campus environmental sustainability and increased energy efficiency. In support of this endeavor, the university funded a \$62.5 million dollar renovation to upgrade the Townes Science Center with state-of-the-art energy efficient features.

The 200,000 square foot building is LEED Gold certified and incorporates renewable energy components including a solar / aquatic waste water treatment system, hybrid solar concentrators, day-lighting, energy recovery wheels, and a chilled-beam cooling system for thermal efficiency.

### Why FlowSafe Stable Vortex II Fume Hoods?

Another component of the major renovation included installing low flow, high performance fume hoods that could meet the professors' safety requirements but could also play a key role in reducing energy consumption for the entire facility. While energy efficiency is an important aspect for facility managers and university leaders, safety is the key concern for professors.

The chair of the chemistry department at Furman personally conducted tests on a myriad of fume hoods using real-world laboratory scenarios. The patented FlowSafe Stable Vortex II was the only fume hood to maintain complete containment during each test. As a result, 120 Stable Vortex II Fume Hoods were installed, as they met both criteria of being safe and energy efficient.

Post-installation, professors noted that lab spaces could now double as lecture halls because FlowSafe fume hoods operate so quietly compared to conventional fume hoods. Fume hoods are tested "as manufactured," "as installed," and "as used." The "as used" test is the most important test to pass, as it is a true assessment of whether or not a fume hood will protect the user.

The FlowSafe Stable Vortex technology was designed to continually adjust to real-world laboratory work including heat transfers, user movement within the hood, and room airflow drafts. FlowSafe's patented design was put to the test by Furman University, and surpassed expectations for its superior ability to effectively contain while utilizing significantly less airflow when compared to average fume hoods.

