

Case Study

Furman University

Townes Science Center Renovation for Energy Efficiency



Furman University is a liberal arts university located in Greenville, South Carolina. Furman is known for psychologist John B. Watson, the founder of behaviorism, and the Nobel Prize winning physicist Charles H. Townes, the inventor of the maser and laser.

Among the university's science pursuits is a dedication to environmental sustainability and increased energy efficiency. In 2008 the Charles H. Townes Science Center underwent a \$62.5 million dollar renovation to upgrade its facilities with more energy efficient features.

The 200,000 square foot building is now LEED Gold certified and incorporates an array of renewable energy components including a solar / aquatic waste water treatment system, two hybrid solar concentrators, day-lighting, energy recovery wheels, a sophisticated chilled-beam cooling system for thermal efficiency, and treated wastewater for flushing toilets.

Another integral part of the energy efficient blueprint for the building was incorporating 120 brand new low flow high performance FlowSafe Stable Vortex® II Fume Hoods.

- ▶ **120 Stable Vortex® Hoods**
- ▶ **LEED Gold Certified**
- ▶ **Integral part of the energy efficient plan**

Choosing a more energy efficient fume hood plays a large role in reducing overall laboratory energy consumption, as a traditional style fume hoods can consume three and a half times the amount of energy as the average American home (<http://fumehoodcalculator.lbl.gov/>).

FlowSafe's Stable Vortex® II Fume Hoods were specifically requested by the university's professors because of their energy-efficient design that provides a superior level of safety for users.

FlowSafe is dedicated to creating safe learning environments for students and professors that allow them to perform cutting-edge research while simultaneously reducing the overall campus energy consumption.