

Vanderbilt University Engineering Sciences Building

Nashville, Tennessee



Rendering: Wilson Architects and Vanderbilt University

Project Background

The 230,000 square foot, seven-story Engineering and Science Building is a centerpiece of the School of Engineering's plan to grow in applied research capabilities. The new building includes an Innovation Center designed to connect students and faculty with technology and industry mentors in order to accelerate the transition of laboratory discoveries and student-developed concepts to the marketplace.

A cleanroom and advanced imaging facilities will provide capabilities that students and faculty need to develop discoveries in nanocomposites, smart materials, advanced energy storage and nano-biotechnology.



20-foot diameter energy recovery wheels—as big as they get!

Project Team

Owner: Vanderbilt University

Architect: Wilson Architects

General Contractor: Clark Construction

Nortek Air Solutions Sales Reps: Tom Barrow Company

Equipment Manufacturer: Ventrol® brand of Nortek Air Solutions

Equipment Profile

- Two identical large energy recovery units:
 - 96,000 cfm Supply
 - 66,000 cfm Return
- Ultra-energy efficient permanent magnet (PM) motors
- Direct-drive heat wheel motor (no belt or gear to maintain)
- 20-foot split wheel configuration
- Factory-wired multi-drive control panel
- Air flow measuring station (AFMS) on each fan



One of the two large Ventrol heat recovery units being installed during construction