

Florida Institute of Technology, Fume Hood Modernization, Olin Physical Science Building Melbourne, Florida



Size: 40,000 S.F

Description: The Olin Physical Science Building consists of laboratories and offices.

Scope: Mechanical and electrical engineering design services and project administration. The scope entailed the following:

1. Upgrade constant air volume exhaust system into a variable air volume system. Provide necessary equipment and controls to ensure safe operation of fume hoods. Provide variable frequency drives, by-pass dampers and controls for roof mounted utility fans.
2. Replace single duct variable air volume boxes with venturi supply air valves. Provide necessary controls and sensors to allow for demand based ventilation control.
3. Provide laboratory space pressurization systems, low voltage control wiring and transformers and integrate new control system into existing campus-wide control system.

Mechanical and electrical systems: Fume hoods, snorkels, fume hood and general exhaust air valves, supply air valves, fume hood monitors, sensors, variable frequency drives, HVAC controls, transformers and electrical disconnects.

Florida Institute of Technology, Fume Hood Modernization, Link Building Melbourne, Florida

LABORATORIES



Size: 25,700 S.F

Description: The Link Building consists of laboratories, classrooms and offices.

Scope: Mechanical and electrical engineering design services and project administration. The scope entailed following:

1. Upgrade constant air volume exhaust system into a variable air volume system. Provide necessary equipment and controls to ensure safe operation of fume hoods. Provide variable frequency drives, by- pass dampers and controls for roof mounted utility fans.
2. Replace single duct variable air volume boxes with venturi supply air valves.

Mechanical and electrical systems: Fume hoods, fume hood and general exhaust air valves, supply air valves, fume hood monitors, sensors, variable frequency drives and HVAC controls, transformers and electrical disconnects.