

Equipment Requirements

(8) Thermo Scientific Infinity, featuring Erlab's GreenFumeHood filtration technology.

Products Expectations

 Lowers capital cost because filtered fume hoods do not require expensive HVAC exhaust or make-up air systems.

• 25 – 30% reduction in HVAC load resulting in less demand on the building's existing systems.

• Eight filtered fume hoods that are used 40 hours a week save approximately 100,000 kWh and \$10,000 annually.

CASE STUDY

Marywood University Renovation of Organic Chemistry Labs



Project Background

he 2,200-SF renovation of the organic chemistry labs at Marywood University's Center for Natural and Health Sciences

Building includes three areas: a 16-student organic chemistry teaching lab with (8) filtered fume hoods, an eight-student organic chemistry research lab with conventional ducted hoods, and a dedicated laboratory preparation and support space, also equipped with ducted hoods.



The Challenge

The low floor-to-floor height on the top floor, where the labs are located, limited available mechanical capacity within the existing infrastructure, and fume-hood-intensive laboratories were at odds with the project budget. After an extensive chemical compatibility and life cycle analysis, it was decided that the filtered fume hood would be a safe and cost effective alternative to traditional fume hoods In the teaching lab.



The Solution

Eight Thermo Scientific Infinity filtered fume hoods utilizing Erlab's GreenFumeHood Technology were installed in the teaching lab. The filtered fume hoods are not tethered to ductwork, and provide several advantages over conventional ducted fume hoods for Marywood University's science department:

- 1. Reduction of initial capital investment and engineered infrastructure
- 2. Erlab's patented Neutrodine filter technology captures and retains high volumes of hazardous chemicals while returning clean air back to the lab.
- 3. The filters are easy to replace. The used filters are disposed of in an environmentally safe manner.
- 4. Long-term flexibility of use, environmental benefits, and significant energy cost savings



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