



CASE STUDY

Center For Coastal Studies Environmental & Animal Research Facility



Equipment Requirements

(1) Labconco Protector Airo featuring Erlab's GreenFumeHood filtration technology

Products Expectations

Employing cutting-edge environmental practices that greatly reduce carbon footprint, such as;

Filtered fume hood captures and retains chemicals at the point of use. Less total first cost and less operating cost than a ducted solution. Photovoltaic solar panels could remain in place. No additional ductwork penetrations through the office spaces above. CCS maintains its leadership role as a concerned partner to the Provincetown community.

Project Background

The Center for Coastal Studies in Provincetown, MA, located at the outermost tip of Cape Cod, performs many critical environmental and animal studies including water quality testing, whale disentanglements, sediment testing, and population biology studies in a sensitive and fragile natural environment. Consolidation of these and many other programs into one location, while maintaining its leadership and commitment to environmental awareness, has long been a goal for the Center. With a grant from the NSF, donations from local businesses and support from the Board of Directors, the Center is renovating a 1965 high school annex building to accomplish this goal.

The Challenge

Commercial buildings are neither designed nor built for housing chemical laboratories. The new Ecology/ Biology lab needed a chemical fume hood for dilutions and prep work with acids, solvents, and bases. Adding a traditional ducted chemical fume hood would also require a hazardous exhaust system on the roof where solar panels, which provide enough energy for all the building's electrical needs, were already in place. Additionally, with their focus on improving the local environment, simply dumping chemicals into the atmosphere hardly seemed the proper solution.

The Solution

Utilizing a Protector Airo filtered fume hood from Labconco, the biology and water chemistry labs can safely handle chemicals while returning clean filtered air back into the lab. Additional costly make-up air is not required, there is no hazardous hood exhaust system on the roof, and the full array of solar panels is not compromised.

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