



# Building Performance Equipment, Inc.™

Scientists and Engineers



## LOCATION

Manufacturing facility and office suite in Northern New Jersey.

## CHALLENGE

A 2000 Square foot office suite with central heating and air-conditioning had serious IAQ (Indoor Air Quality) issues. A manufacturing and welding facilities directly below the office area generated large amounts of carbon monoxide and combustion products. Heated CO and combustion products infiltrated the office and carbon monoxide levels above 100 ppm were recorded and the office was evacuated.

## SOLUTION

The lack of fresh make-up air was solved with a direct vent BPE-XE-200 unit and two 19 watt fans (total power consumption 38 watts), providing fresh air and non-detectable CO levels. Saving \$45,000 for a new HVAC system. Additionally, air-conditioning and heating costs were reduced by one third.

The total cost was under \$5,000 for the equipment and installation, while providing over 85% energy recovery with a payback of under 4 years or an IRR of over 25%



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